

SERVICE MANUAL

COMPACT DISC /
STEREO CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000
BASIC CD MECHANISM : DA11T3C

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual", (S/M Code No. 09-001-426-7T1).

SPECIFICATIONS <U>

Tuner section

Frequency range

FM :	87.5 MHz - 108.0 MHz Antenna : Rod antenna
AM :	530/531 kHz - 1,710/1,602 kHz (10/9 kHz/step) Antenna : Ferrite bar antenna

Deck section

Track format

Frequency range

Recording system

Erasing system

Heads

4 tracks, 2 channels
Normal tape : 50 Hz-12,500 Hz (EIAJ)
AC bias
Magnet erase
Recording/Playback head x 1/ Erasure head x 1

CD player section

Disc

Scanning methodd

Compact disc
Non-contact optical scanner (semiconductor laser)

General

Speaker

Output

Power output

Power requirements

Power consumption

Dimensions (W x H x D)

Weight

100 mm cone type (2), 60 mm cone type (2)
Headphones jack (stereo mini-jack)
2.5 W + 2.5 W (EIAJ 7 ohms DC)

DC 12 V using eight R14 (size C) batteries,
AC 120 V, 60 Hz

12 W

435 (W) x 184 (H) x 277 (D) mm
(17¹/₄ x 7¹/₄ x 11 in.)

3.7 kg (8 lbs. 3 oz.) (excluding batteries)

- Design and specifications are subject to change without notice.

SPECIFICATIONS <EZ,K>

Tuner section

Frequency range

FM :	87.5 MHz - 108.0 MHz Antenna : Rod antenna
MW :	531/530 kHz - 1,602/1,710 kHz (9/10 kHz/step) Antenna : Ferrite bar antenna
LW :	153 - 288 kHz Antenna : Ferrite bar antenna

Deck section

Track format

Frequency range

Recording system

Erasing system

Heads

4 tracks, 2 channels
Normal tape : 50 Hz-12,500 Hz (EIAJ)
AC bias
Magnet erase
Recording/Playback head x 1/ Erasure head x 1

CD player section

Disc

Scanning methodd

Compact disc
Non-contact optical scanner (semiconductor laser)

General

Speaker

Output

Power output

Power requirements

Power consumption

Dimensions (W x H x D)

Weight

100 mm cone type (2), 60 mm cone type (2)
Headphones jack (stereo mini-jack)
2.9 W + 2.9 W (DIN MUSIC POWER)<EZ>
2.5 W + 2.5 W (EIAJ 7 ohms DC, T.H.D. 10%)
1.9 W + 1.9 W (DIN 1% Rated Power)

DC 12 V using eight R14 (size C) batteries,
AC 230 V, 50 Hz

16 W

435 (W) x 184 (H) x 277 (D) mm
(17¹/₄ x 7¹/₄ x 11 in.)

3.7 kg (8 lbs. 3 oz.) (excluding batteries)

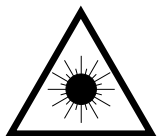
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

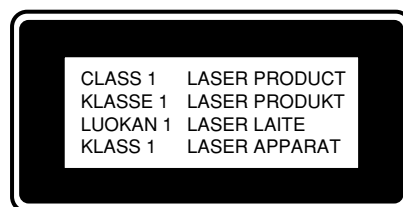
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

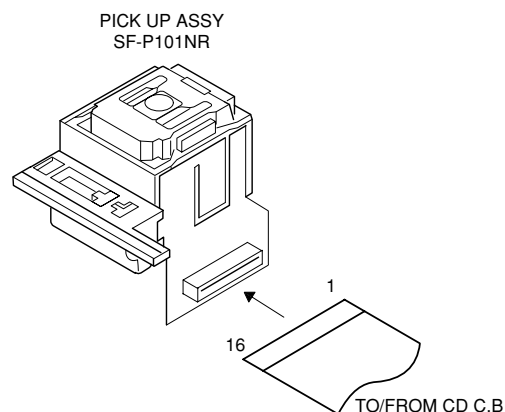
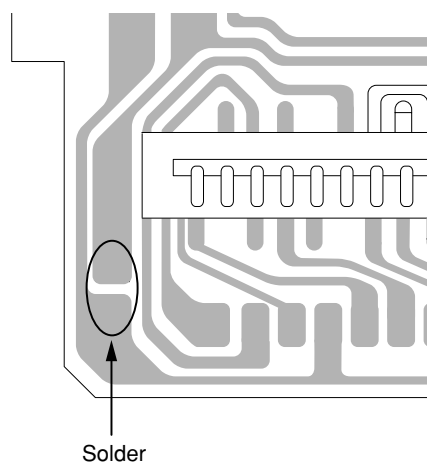
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C805	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-550-010		IC,TA2149N	C806	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-185-040		C-IC,LC72121M	C807	87-010-405-080		CAP, ELECT 10-50V
	87-A21-064-010		IC,LA4227	C808	87-010-405-080		CAP, ELECT 10-50V
	87-A21-520-040		C-IC,M61509FP<EZ,U>	C809	87-010-401-080		CAP, ELECT 1-50V
	87-A21-443-040		C-IC,M62495AFP<K>	C810	87-010-401-080		CAP, ELECT 1-50V
	87-A20-446-010		C-IC,LA9241ML	C811	87-010-178-080		CHIP CAP 1000P
	87-A20-459-010		C-IC,LC78622ED	C812	87-010-178-080		CHIP CAP 1000P
	87-A21-093-010		IC,LA6541D	C816	87-010-180-080		C-CER 1500P
	8A-CH4-661-010		C-IC,LC867132V-5P07	C817	87-010-180-080		C-CER 1500P
	87-A21-431-010		IC,BA4560N	C821	87-010-401-080		CAP, ELECT 1-50V
TRANSISTOR				C822	87-010-401-080		CAP, ELECT 1-50V
	87-026-237-080		C-TR,DTC124XK	C823	87-010-178-080		CHIP CAP 1000P
	89-327-143-080		TR,2SC2714 (0.1W)	C824	87-010-178-080		CHIP CAP 1000P
	87-026-447-080		TR,2SC1740SR	C829	87-010-178-080		CHIP CAP 1000P
	89-111-624-080		TR,2SA1162Y	C830	87-010-178-080		CHIP CAP 1000P
	87-026-213-080		CHIP-TR,DTC114YK	C831	87-010-198-080		C-CAP, 0.22-25 K B
	89-327-125-080		CHIP TR,2SC2712GR	C834	87-010-248-080		CAP, ELECT 220-10V
	89-503-025-010		C-FET,2SK302GR	C843	87-010-197-080		CAP, CHIP 0.01 DM
	89-318-154-080		TR,2SC1815 (0.4W)	C844	87-018-124-080		CAP, CER 270P-50V
	89-112-965-080		TR,2SA1296 (0.75W)	C845	87-010-178-080		CHIP CAP 1000P
	87-026-463-080		TR,2SA933S (0.3W)	C846	87-010-263-080		CAP, ELECT 100-10V
	87-026-291-080		TR,DTC124XS	C851	87-010-186-080		CAP,CHIP 4700P
	89-213-702-080		TR,2SB1370E	C852	87-010-178-080		CHIP CAP 1000P
	89-320-011-080		TR,2SC2001K	C853	87-A11-145-080		CAP, TC U 0.01-50
	87-026-462-080		TR,2SC1740 S(RS 0.3W)	CN201	87-099-018-010		CONN,16P
	89-109-332-380		TR,2SA933RS	CN801	87-A60-110-010		CONN,4P V S2M-4W
	89-113-187-080		TR,2SA1318TU	CNA302	8A-CD9-629-010		CONN ASSY, 6P MA-TU
	87-026-239-080		TR,DTC114TK	CNA801	8A-CD9-630-010		CONN ASSY, 4P RPH
	87-026-210-080		TR,DTC144EK	FC201	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
	87-026-464-080		TR,DTC114TS (0.3W)	L801	87-007-342-010		COIL,OSC 85K BIAS
	87-026-230-080		C-TR,DTA114YK	SW801	8Z-CD9-609-010		SW,SL 1-6-2 PS62D01
DIODE				CD C.B			
	87-A40-234-080		ZENER,MTZJ5.6A	C30	87-010-260-080		CAP, ELECT 47-25V
	87-020-465-080		DIODE,1SS133 (110MA)	C251	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-072-080		ZENER,HZS3B1	C261	87-010-402-080		CAP,E 2.2-50 M
	87-027-703-080		ZENER,HZ7A1L	C262	87-010-402-080		CAP,E 2.2-50 M
	87-A40-648-080		ZENER,MTZJ8.2A	C263	87-010-178-080		CHIP CAP 1000P
	87-070-345-080		DIODE,IN4148	C264	87-010-178-080		CHIP CAP 1000P
	87-017-978-080		DIODE,1N4003	C265	87-010-263-080		CAP, ELECT 100-10V
	87-027-702-080		DIODE,ZENER HZ6C2L (200MA)	C266	87-010-263-080		CAP, ELECT 100-10V
	87-A40-465-010		DIODE,FR202	C267	87-010-112-080		CAP, ELECT 100-16V
	87-027-399-080		ZENER,HZ7A3L	C268	87-010-112-080		CAP, ELECT 100-16V
MAIN C.B				C271	87-010-237-080		CAP, ELECT 1000-16V
C211	87-A11-603-080		CAP, S 0.15-16	C272	87-010-237-080		CAP, ELECT 1000-16V
C212	87-A11-603-080		CAP, S 0.15-16	C278	87-010-405-080		CAP, ELECT 10-50V
C215	87-016-460-080		C-CAP,S 0.22-16 B	C279	87-010-385-080		CAP, ELECT 220-25V
C216	87-016-460-080		C-CAP,S 0.22-16 B	C301	87-016-495-000		CAP,E 3300-25 M SMG
C231	87-010-213-080		C-CAP,S 0.015-50 B	C306	87-010-404-080		CAP, ELECT 4.7-50V
C232	87-010-213-080		C-CAP,S 0.015-50 B	C307	87-010-401-080		CAP, ELECT 1-50V
C233	87-A10-201-080		C-CAP,S0.33-16 KB	C308	87-010-221-080		CAP, ELECT 470-10V
C234	87-A10-201-080		C-CAP,S0.33-16 KB	C311	87-010-263-080		CAP, ELECT 100-10
C235	87-016-669-080		C-CAP,S 0.1-25 K B	C312	87-010-385-080		CAP, ELECT 220-25V
C236	87-016-669-080		C-CAP,S 0.1-25 K B	C321	87-010-197-080		CAP, CHIP 0.01 DM
C237	87-010-371-080		CAP, ELECT 470-6.3M	C322	87-010-263-080		CAP, ELECT 100-10V
C239	87-010-197-080		CAP, CHIP 0.01 DM<EZ,U>	C325	87-010-405-080		CAP, ELECT 10-50V
C239	87-010-805-080		CAP, CHIP 1-16 Z F<K>	C401	87-010-403-080		CAP, ELECT 3.3-50V
C240	87-010-197-080		CAP, CHIP 0.01 DM<EZ,U>	C402	87-010-197-080		CAP, CHIP 0.01 DM
C240	87-010-805-080		CAP, CHIP 1-16 Z F<K>	C403	87-010-263-080		CAP, ELECT 100-10V
C247	87-010-401-080		CAP, ELECT 1-50V	C404	87-010-248-080		CAP, ELECT 220-10V
C248	87-010-401-080		CAP, ELECT 1-50V	C405	87-010-197-080		CAP, CHIP 0.01 DM
C310	87-010-248-080		CAP, ELECT 220-10V	C406	87-010-374-080		CAP, ELECT 47-10V
C316	87-010-263-080		CAP,E 100-10	C407	87-010-178-080		CHIP CAP 1000P
C317	87-010-197-080		CAP, CHIP 0.01 DM	C408	87-010-198-080		CAP, CHIP 0.022
C801	87-010-248-080		CAP, ELECT 220-10V	C409	87-010-248-080		CAP, ELECT 220-10V
				C410	87-010-263-080		CAP, ELECT 100-10V
				C411	87-A11-177-080		C-CAP,S 0.15-16 K B
				C412	87-010-401-080		CAP, ELECT 1-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C413	87-016-369-080	C-CAP,S 0.033-25 B K	
C414	87-010-405-080	CAP, ELECT 10-50V	
C416	87-010-545-080	CAP, ELECT 0.22-50V	
C417	87-012-157-080	C-CAP,S 330P-50 CH	
C418	87-010-213-080	C-CAP,S 0.015-25 B	
C419	87-A11-608-080	C-CAP,S 0.33-25 K B	
C420	87-016-369-080	C-CAP,S 0.033-25 B K	
C421	87-A11-177-080	C-CAP,S 0.15-16 K B	
C422	87-010-184-080	C-CAP,S 3300P-50 K B	
C423	87-010-992-080	CHIP-CAP,S 0.047-25	
C424	87-A11-606-080	C-CAP,S 0.22-25 K B	
C425	87-010-176-080	C-CAP,S 680P-50 SL	
C426	87-A11-608-080	C-CAP,S 0.33-25 K B	
C428	87-010-197-080	CAP, CHIP 0.01 DM	
C429	87-010-186-080	CAP,CHIP 4700P	
C430	87-012-156-080	C-CAP,S 220P-50 CH	
C431	87-010-545-080	CAP, ELECT 0.22-50V	
C432	87-010-374-080	CAP, ELECT 47-10V	
C433	87-010-401-080	CAP, ELECT 1-50V	
C434	87-010-184-080	CHIP CAPACITOR 3300P(K)	
C435	87-010-197-080	CAP, CHIP 0.01 DM	
C436	87-010-374-080	CAP, ELECT 47-10V	
C437	87-010-404-080	CAP, ELECT 4.7-50V	
C438	87-016-669-080	C-CAP,S 0.1-25 K B	
C439	87-010-178-080	CHIP CAP 1000P	
C440	87-010-145-080	C-CAP, S 1P-50 C CH	
C441	87-010-197-080	CAP, CHIP 0.01 DM	
C442	87-010-313-080	C-CAP,S 18P-50 CH	
C445	87-012-368-080	C-CAP,S 0.1-50 F	
C446	87-012-368-080	C-CAP,S 0.1-50 F	
C447	87-012-368-080	C-CAP,S 0.1-50 F	
C448	87-010-315-080	C-CAP,S 27P-50 CH	
C450	87-012-140-080	C-CAP,S 470P-50	
C451	087-012-156-080	C-CAP,S 220P-50 CH	
C455	87-010-247-080	CAP, ELECT 100-50 M SME	
C457	87-010-312-080	C-CAP,S 15P-50 CH	
C458	87-010-312-080	C-CAP,S 15P-50 CH	
C459	87-010-263-080	CAP, ELECT 100-10V	
C460	87-015-819-080	CAPACITOR,0.01	
C461	87-010-197-080	CAP, CHIP 0.01 DM	
C462	87-010-248-080	CAP, ELECT 220-10V	
C463	87-010-197-080	C-CAP,S 0.01-25 K B	
C465	87-010-404-080	CAP, ELECT 4.7-50V	
C466	87-012-368-080	C-CAP,S 0.1-50 F	
C467	87-010-263-080	CAP, ELECT 100-10V	
C469	87-012-154-080	C-CAP,S 150P-50 CH	
C470	87-010-544-080	CAP, ELECT 0.1-50V	
C471	87-010-196-080	CHIP CAPACITOR, 0.1FZ-25Z	
C472	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z	
C473	87-010-196-080	CHIP CAPACITOR, 0.1FZ-25Z	
C474	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z	
C475	87-010-197-080	CAP, CHIP 0.01 DM	
C476	87-010-236-080	CAP,E 1000-10 SME	
C477	87-010-197-080	CAP, CHIP 0.01 DM	
C478	87-010-263-080	CAP, ELECT 100-10V	
C479	87-010-197-080	CAP, CHIP 0.01 DM	
C480	87-010-221-080	CAP, ELECT 470-10V	
C481	87-010-405-080	CAP, ELECT 10-50V	
C482	87-010-405-080	CAP, ELECT 10-50V	
C489	87-012-368-080	C-CAP,S 0.1-50 F	
C490	87-012-368-080	C-CAP,S 0.1-50 F	
C491	87-010-197-080	CAP, CHIP 0.01 DM	
C492	87-010-221-080	CAP, ELECT 470-10V	
C494	87-010-197-080	CAP, CHIP 0.01 DM	
C495	87-016-669-080	C-CAP,S 0.01-25 K	
C501	87-012-368-080	C-CAP,S 0.1-50 F	
C502	87-010-322-080	C-CAP,S 100P-50 CH	
C503	87-010-322-080	C-CAP,S 100P-50 CH	
C504	87-010-322-080	C-CAP,S 100P-50 CH	
C505	87-010-322-080	C-CAP,S 100P-50 CH	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C506	87-010-322-080	C-CAP,S 100P-50 CH	
C510	87-016-669-080	C-CAP,S 0.01-25 K	
C831	87-010-198-080	CAP, CHIP 0.022	
CN202	8A-CH4-689-010	CONN,3P V 2.5	
CN205	87-A60-109-010	CONN,2P V S2M-2W	
CN301	8A-CH4-689-010	CONN,3P V 2.5	
CN401	87-A60-424-010	CONN,16P V TOC-B	
CN403	87-099-201-010	CONN,8P 6216 H	
CN802	8A-CH4-687-010	CONN,4P V 2.5	
CNA205	8A-CD9-626-010	CONN ASSY,2P DOOR	
CNA402	8A-CD9-625-010	CONN ASSY,6P CD-ME	
CNA802	8A-CD9-631-010	CONN ASSY,4P TP-ME	
FC401	8A-CD9-621-010	FF-CABLE, 16P CD-RF	
FC403	8A-CD9-622-010	FF-CABLE, 8P CD-FR	
L401	87-003-102-080	COIL, 10UH	
L404	87-003-152-080	COIL, 100UH	
R840	87-029-124-010	RES,FUSE 2.2-1/4	
SFR430	87-024-437-080	SFR,100K H RH063MC	
SW205	87-036-389-010	SW, PUSH 1-1-1 R8120125	
X401	8Z-CD5-633-010	VIB, CER16.93MHZ FCR16.93M2	
FRONT C.B			
C601	87-010-313-080	CAP, CHIP 18P	
C602	87-010-315-080	C-CAP,S 27P-50 CH	
C603	87-010-319-080	C-CAP,S 56P-50 CH	
C604	87-010-312-080	C-CAP,S 15P-50 CH	
C605	87-010-317-080	C-CAP,S 39P-50 CH	
C607	87-A10-826-080	CHIP CAPACITOR,S 1-10 K B	
C608	87-010-196-080	CHIP CAPACITOR,0.1-25	
C612	87-A10-189-040	CAP,E 220-10	
C613	87-010-495-040	CAP,E 2.2-50 GAS	
C614	87-010-196-080	CHIP CAPACITOR,0.1-25	
C615	87-010-493-040	CAP,E 0.47-50 GAS	
C616	87-010-494-040	CAP,E 1-50 GAS	
C620	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z	
C627	87-A10-826-080	CHIP CAPACITOR,S 1-10 K B	
CN601	87-099-033-010	16P 6216 H	
CN602	87-099-201-010	CONN,8P 6216 H	
CNA603	8A-CD9-624-010	CONN ASSY,4P TU-FR	
CNA604	8A-CH9-623-010	CONN ASSY,2P KEY	
L601	87-003-102-080	COIL, 10UH J LAL02	
L690	87-003-231-080	C-COIL, 2125 1UH K	
L691	87-003-231-080	C-COIL, 2125 1UH K	
LCD601	8Z-CH4-635-010	LCD,HLC7365 ZCH-4	
LED601	88-CD6-630-010	LED,934ID RED	
LED602	88-CD6-630-010	LED,934ID RED	
LED603	88-CD6-630-010	LED,934ID RED	
LED604	88-CD6-630-010	LED,934ID RED	
LED606	88-CD6-630-010	LED,934ID RED	
LED607	88-CD6-630-010	LED,934ID RED	
LED608	88-CD6-630-010	LED,934ID RED	
LED610	88-CD6-631-010	LED,934GD GRN<EZ,U>	
S601	87-A91-704-080	SW,TACT EVQ 214 05R	
S602	87-A91-704-080	SW,TACT EVQ 214 05R	
S603	87-A91-704-080	SW,TACT EVQ 214 05R	
S604	87-A91-704-080	SW,TACT EVQ 214 05R	
S605	87-A91-704-080	SW,TACT EVQ 214 05R	
S606	87-A91-704-080	SW,TACT EVQ 214 05R	
S607	87-A91-704-080	SW,TACT EVQ 214 05R	
S608	87-A91-704-080	SW,TACT EVQ 214 05R	
S614	87-A91-704-080	SW,TACT EVQ 214 05R	
X601	87-030-273-010	VIB,XTAL 32.768K5PPM	
X602	87-030-376-080	VIB,CER CSA5.76MG200	
TUNER C.B			
C1	87-010-314-080	C-CAP,S 22P-50V	
C2	87-010-316-080	C-CAP,S 33P-50 CH	
C3	87-010-314-080	C-CAP,S 22P-50V	
C5	87-016-669-080	C-CAP,S 0.1-25 K B<U>	

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
C5	87-012-360-080		C-CAP,S 1-10 Z F<EZ,K>	L6	87-A50-567-010		COIL,FM OSC(ACH)
C6	87-010-313-080		CAP, CHIP 18P	L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
C7	87-014-049-080		CAP,PP 470P-100 J	L8	87-005-849-080		COIL,10UH(CECS)
C8	87-010-178-080		CHIP CAP 1000P	L51	87-A50-421-010		COIL, LW OSC(SYN)<EZ,K>
C10	87-010-197-080		CAP, CHIP 0.01 DM	TC1	87-011-254-080		TRIMER,20P LAR
C11	87-010-197-080		CAP, CHIP 0.01 DM	TC51	87-A91-659-010		TRIMMER,50P 4.0X4.5 ECRL<EZ,K>
C12	87-010-197-080		CAP, CHIP 0.01 DM	X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C13	87-010-150-080		C-CAP,S 6P-50 CH				
C14	87-010-303-080		C-CAP,S 330P-50CH				
C15	87-010-178-080		CHIP CAP 1000P	H.P. C.B			
C16	87-010-374-080		CAP, ELECT 47-10V	CN204	87-A60-685-010		CONN,4P H WHT
C17	87-010-198-080		CAP, CHIP 0.022	CN605	87-A60-113-010		CONN,2P H S2M-2WR
C18	87-015-835-080		C-CAP,0.047 D	CNA203	8A-CD9-628-010		CONN ASSY,3P MA-HP
C19	87-010-263-080		CAP, ELECT 100-10V	CNA204	8A-CD9-633-010		CONN ASSY,4P SP
C20	87-010-404-080		CAP, ELECT 4.7-50V	J251	87-A60-569-010		JACK,HTJ-035-18
C21	87-010-197-080		CAP, CHIP 0.01 DM	S609	87-A91-704-080		SW,TACT EVQ 214 05R
C22	87-010-197-080		CAP, CHIP 0.01 DM	S610	87-A91-704-080		SW,TACT EVQ 214 05R
C23	87-010-197-080		CAP, CHIP 0.01 DM	S611	87-A91-704-080		SW,TACT EVQ 214 05R
C24	87-010-303-080		C-CAP,S 330P-50CH	S612	87-A91-704-080		SW,TACT EVQ 214 05R
C25	87-016-460-080		C-CAP,S 0.22-16 B	S613	87-A91-704-080		SW,TACT EVQ 214 05R
C27	87-A11-067-080		C-CAP,S 1-10 K B				
C28	87-016-669-080		C-CAP,S 0.1-25 K B	BATT1 C.B			
C29	87-016-669-080		C-CAP,S 0.1-25 K B				
C30	87-010-198-080		CAP, CHIP 0.022<U>	C901	87-010-192-080		C-CAP,S 0.22-50 Z F
C30	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>	C902	87-010-192-080		C-CAP,S 0.22-50 Z F
C31	87-010-198-080		CAP, CHIP 0.022<U>	C903	87-010-192-080		C-CAP,S 0.22-50 Z F
C31	87-010-213-080		C-CAP,S 0.015-25 K B<EZ,K>	C904	87-010-192-080		C-CAP,S 0.22-50 Z F
C33	87-012-358-080		C-CAP,S 0.47-10 F Z	CNA901	8A-CD9-627-010		CONN ASSY,3P PWR
C34	87-012-358-080		C-CAP,S 0.47-10 F Z	△ PT901	8A-CD9-606-010		PT,U 2.5W<U>
C35	87-015-819-080		CAPACITOR,0.01	△ PT901	8A-CD8-603-010		PT,E<EZ,K>
C36	87-010-263-080		CAP, ELECT 100-10V	△ PR901	87-A90-092-080		PROTECTOR,2.5A 491SERIES 60<EZ,K>
C37	87-010-197-080		CAP, CHIP 0.01 DM				
C38	87-010-374-080		CAP, ELECT 47-10V	BATT2 C.B			
C39	87-010-404-080		CAP, ELECT 4.7-50V				
C40	87-010-197-080		CAP, CHIP 0.01 DM	MOTOR C.B			
C41	87-010-178-080		CHIP CAP 1000P				
C42	87-010-178-080		CHIP CAP 1000P	M2	9X-262-576-910		MOTOR GEAR ASSY
C43	87-010-178-080		CHIP CAP 1000P	PIN3	91-564-722-110		CONNECTOR 6P
C44	87-010-311-080		CAP 12P	SW1	91-572-085-120		LEAF SW
C45	87-010-312-080		C-CAP,S 15P-50 CH				
C46	87-010-197-080		CAP, CHIP 0.01 DM				
C47	87-010-197-080		CAP, CHIP 0.01 DM				
C48	87-010-197-080		CAP, CHIP 0.01 DM				
C49	87-012-140-080		CAP 470P				
C50	87-010-197-080		CAP, CHIP 0.01 DM				
C51	87-010-316-080		C-CAP,S 33P-50<EZ,K>				
C52	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C53	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C54	87-014-055-080		CAP, 820-100J<EZ,K>				
C55	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>				
C71	87-010-197-080		CAP, CHIP 0.01 DM				
C72	87-010-263-080		CAP, ELECT 100-10V				
C73	87-010-197-080		CAP, CHIP 0.01 DM				
C75	87-010-197-080		CAP, CHIP 0.01 DM				
C91	87-012-140-080		CAP 470P				
C92	87-010-197-080		CAP, CHIP 0.01 DM				
C93	87-010-197-080		CAP, CHIP 0.01 DM				
CF1	87-A91-094-010		FLTR,CDA10.7 MG80A				
CF2	87-008-261-010		FILTER, SFE10.7MA5-A				
CF3	87-008-261-010		FILTER, SFE10.7MA5-A				
CN2	87-099-854-010		CONN,6P S2M-6W				
CN3	87-A60-110-010		CONN,4P V S2M-4W				
D3	87-A40-616-070		VARI-CAP,SVC384 (S/T)				
D4	87-A40-128-080		C-VARI-CAP,HVU202A				
D5	87-A40-128-080		C-VARI-CAP,HVU202A				
L2	87-A50-560-010		COIL,FM BPF(ACD)				
L3	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI) <U>				
L3	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI) <EZ,K>				
L4	87-A50-420-010		COIL,MW OSC(SYN)				
L5	87-A50-566-010		COIL,FM RF EX(ACH)				

TRANSISTOR ILLUSTRATION



E C B

2SA933S
2SA933RS
2SC1740S
2SC1740SR
DTC114TS
DTC124XS



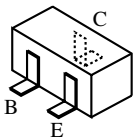
B C E

2SB1370



E C B

2SA1296
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DTC144EK



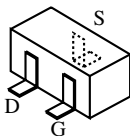
E C B

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E C B

2SC2001

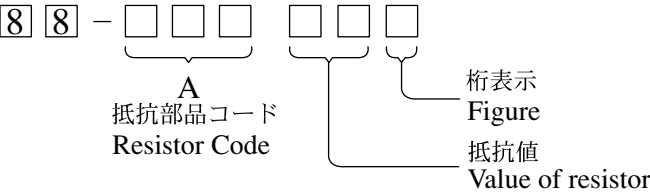


2SK302


○チップ抵抗部品コード／CHIP RESISTOR PART CODE

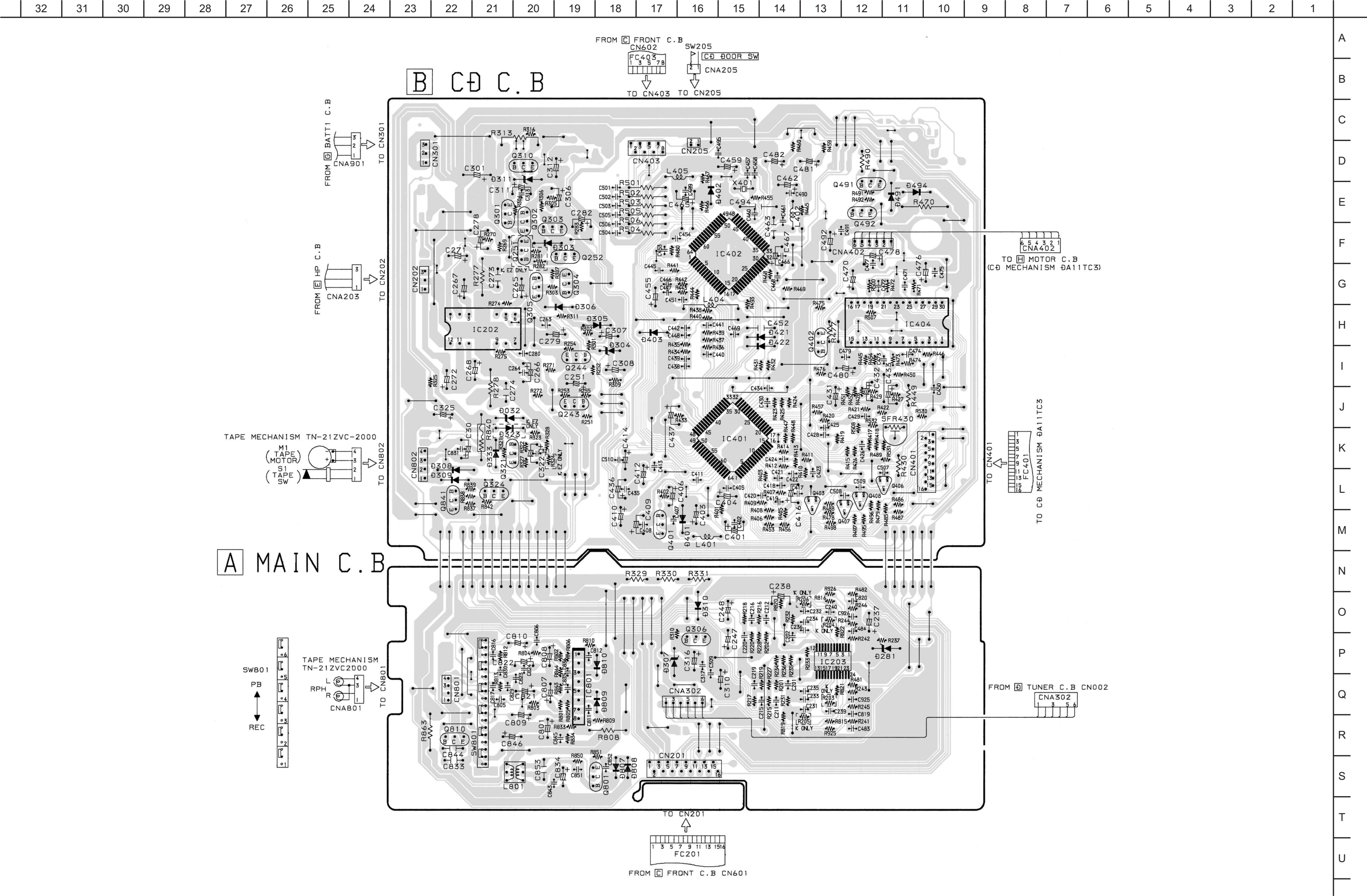
チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding

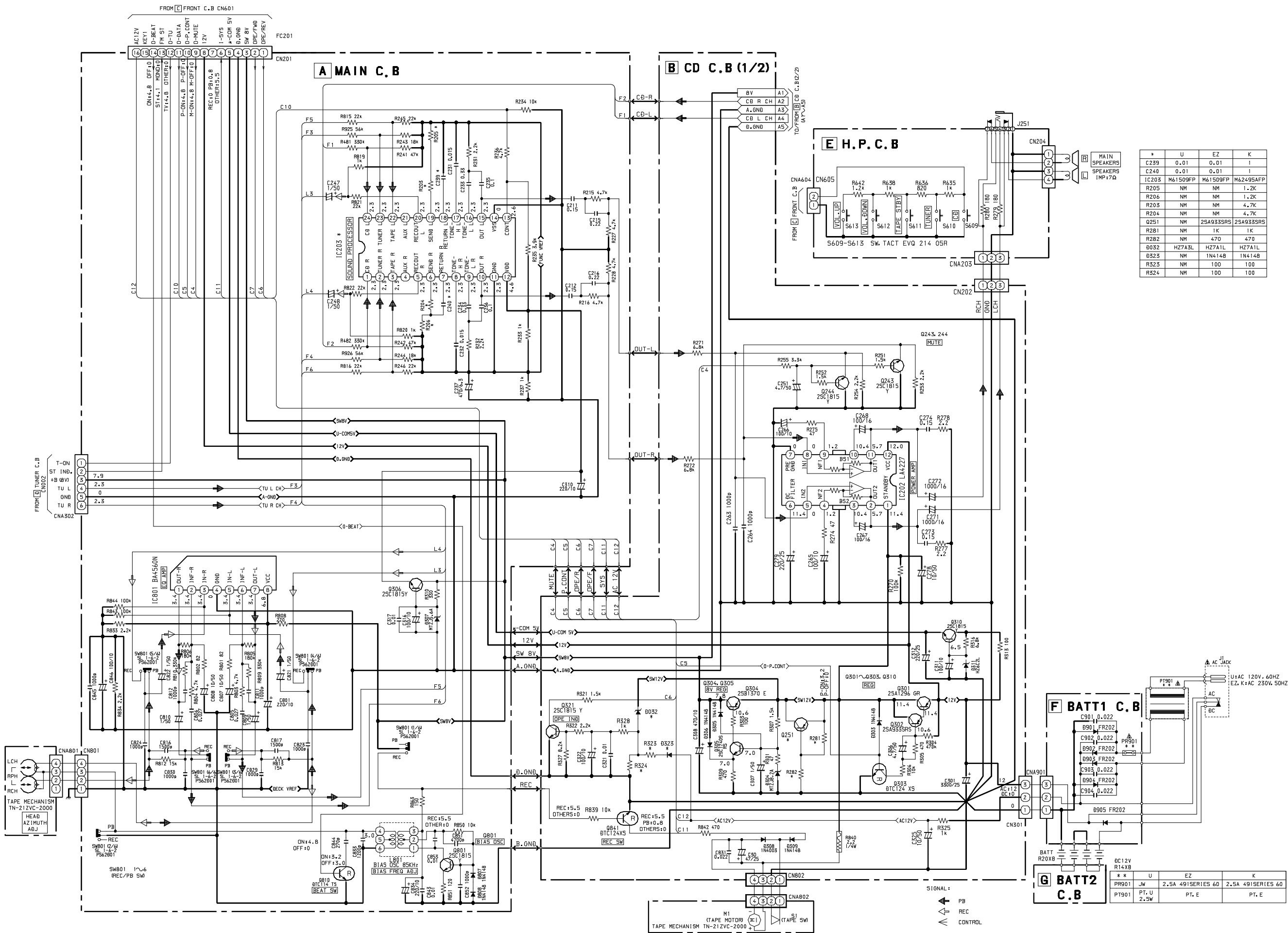


チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

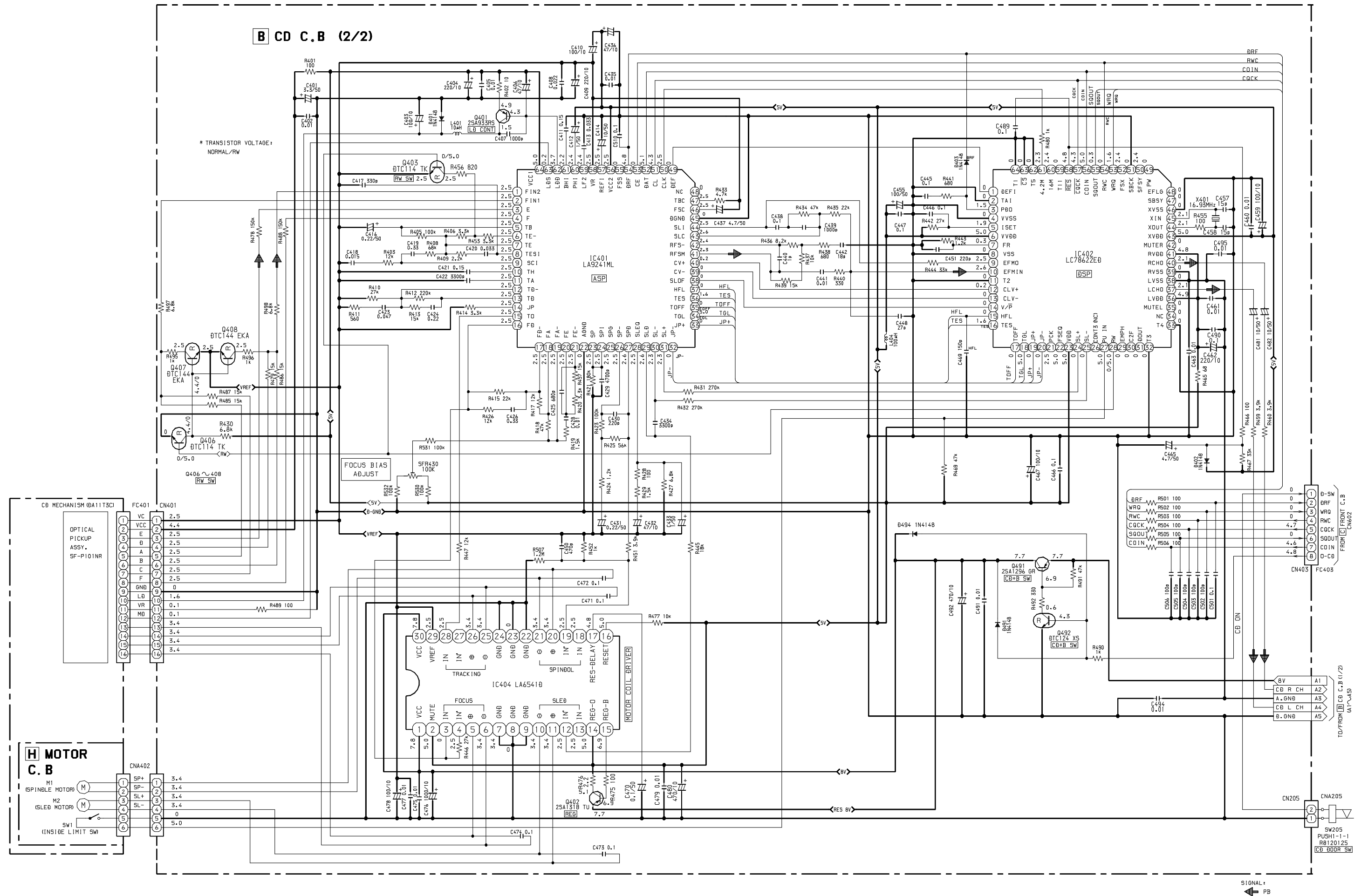


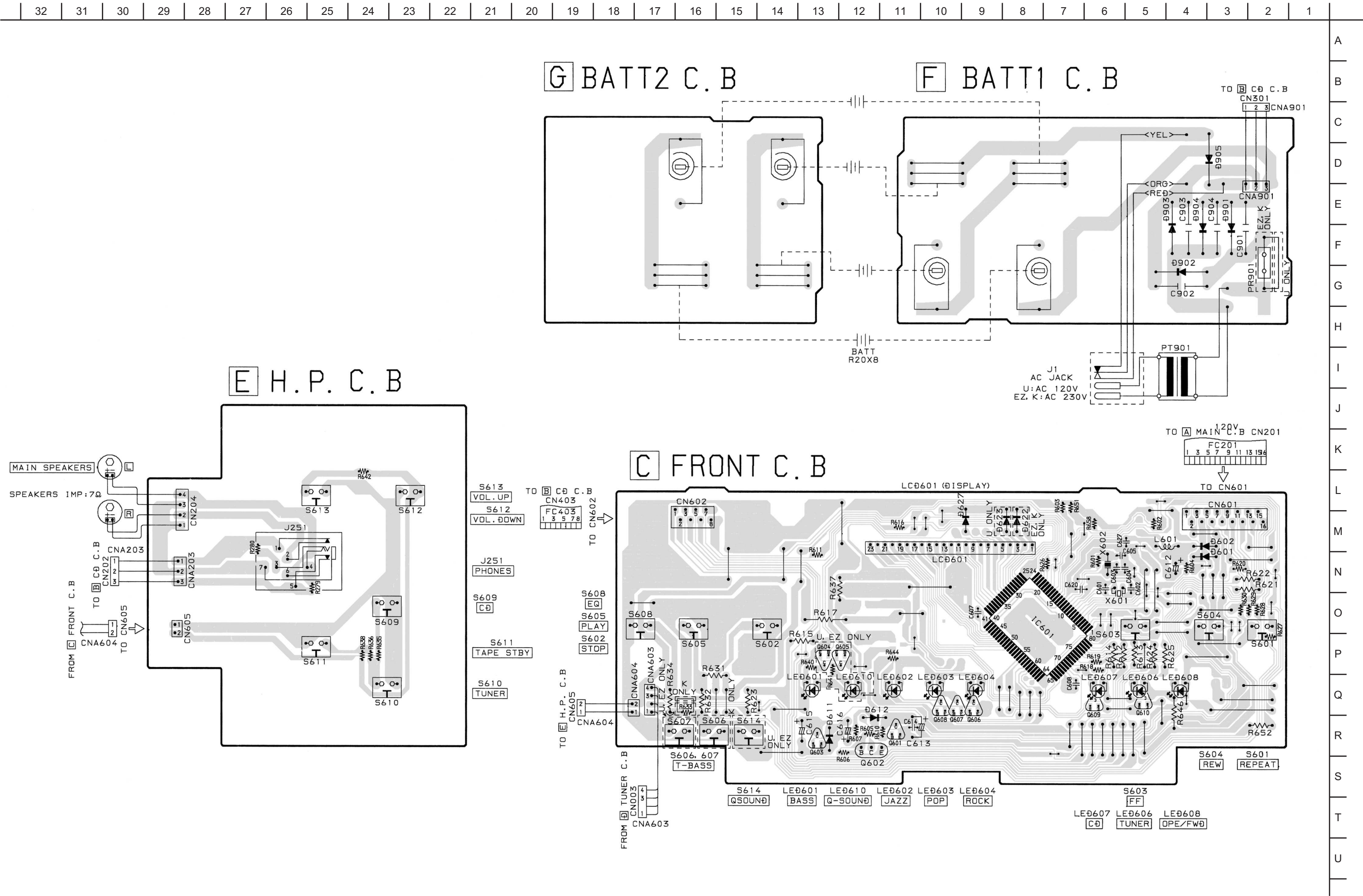
SCHEMATIC DIAGRAM - 1 (MAIN/CD 1/2/H.P./BATT1/BATT2)



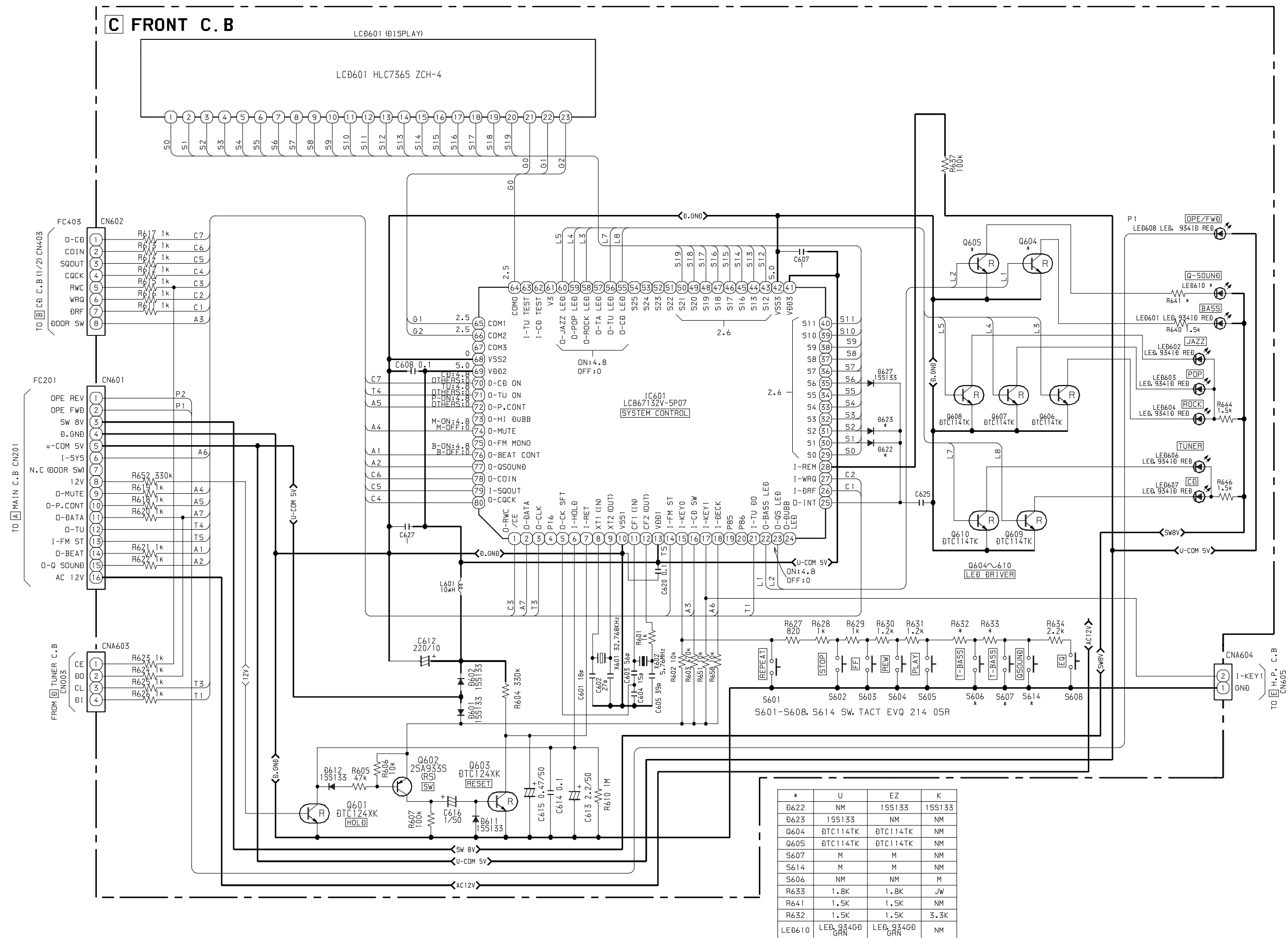
*	U	EZ	K
C239	0.01	0.01	1
C240	0.01	0.01	1
IC203	M61509FP	M61509FP	M62495AFP
R205	NM	NM	1.2K
R206	NM	NM	1.2K
R203	NM	NM	4.7K
R204	NM	NM	4.7K
Q251	NM	25A933SRS	25A933SRS
R281	NM	1K	1K
R282	NM	470	470
0052	HZ7A3L	HZ7A1L	HZ7A1L
0523	NM	1N4148	1N4148
R523	NM	100	100
R524	NM	100	100

**	U	EZ	K
PR901	JW	2.5A 491SERIES 60	2.5A 491SERIES 60
PT901	PT, U	PT, E	PT, E

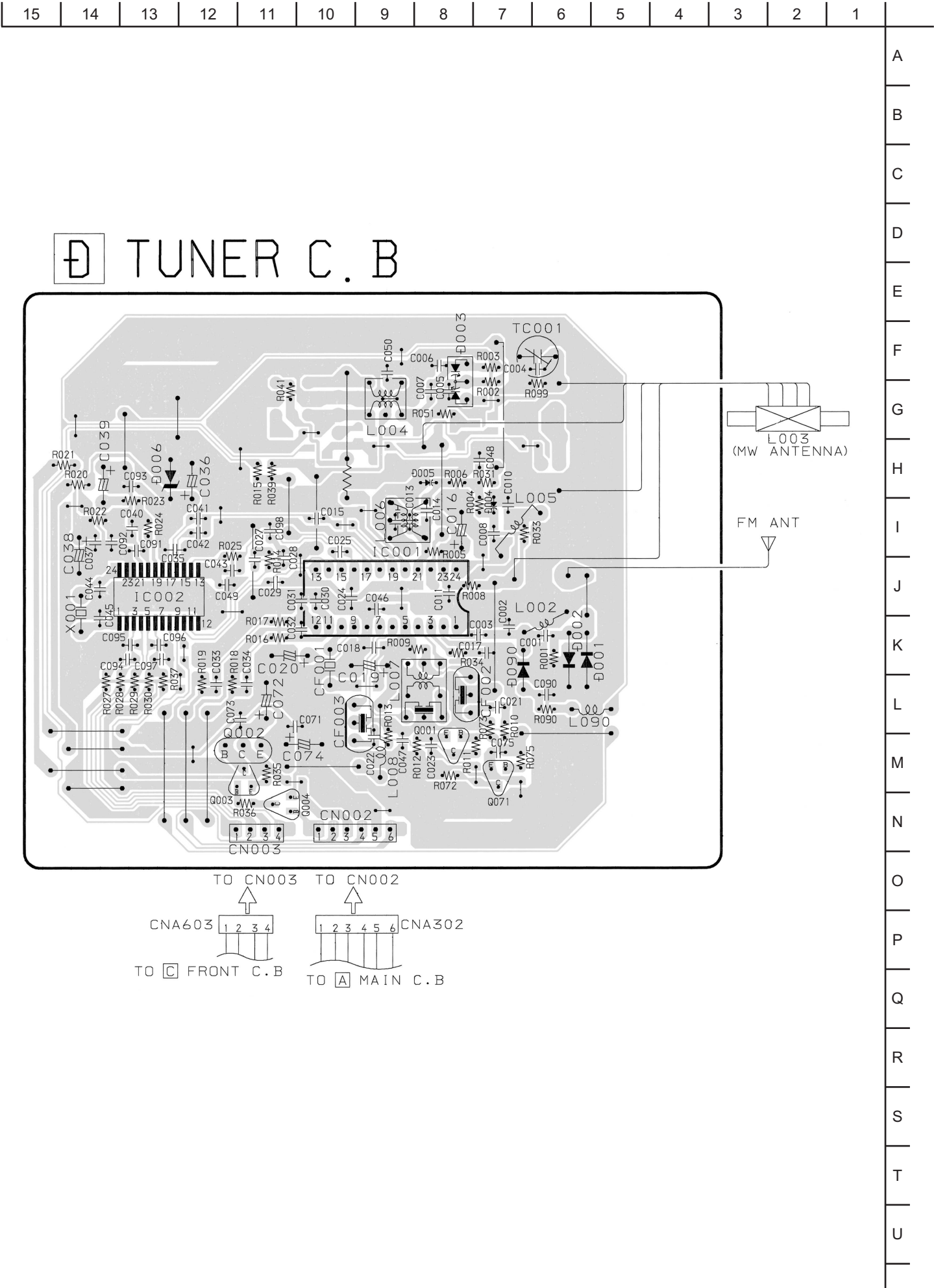


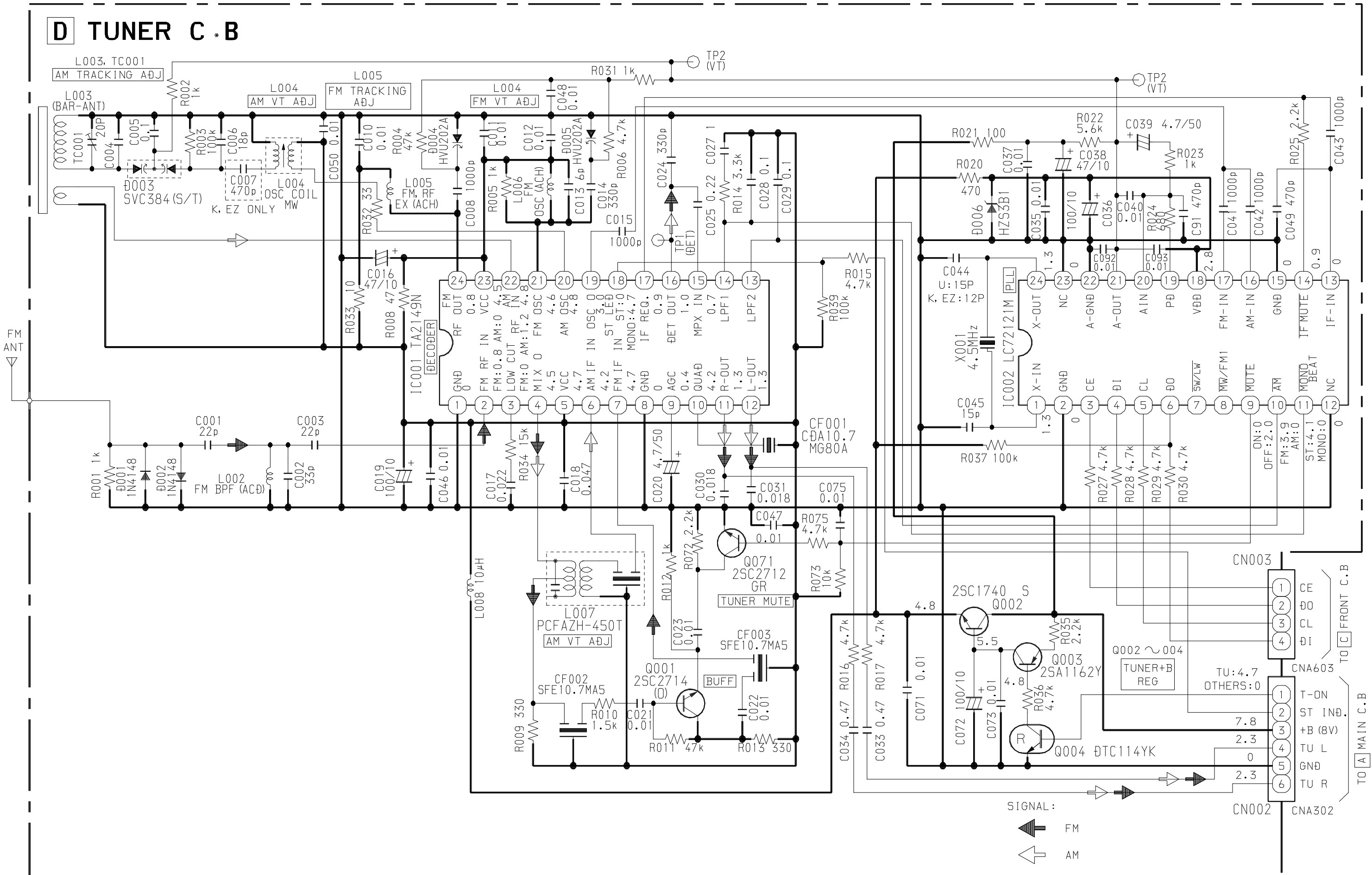


SCHEMATIC DIAGRAM - 3 (FRONT)

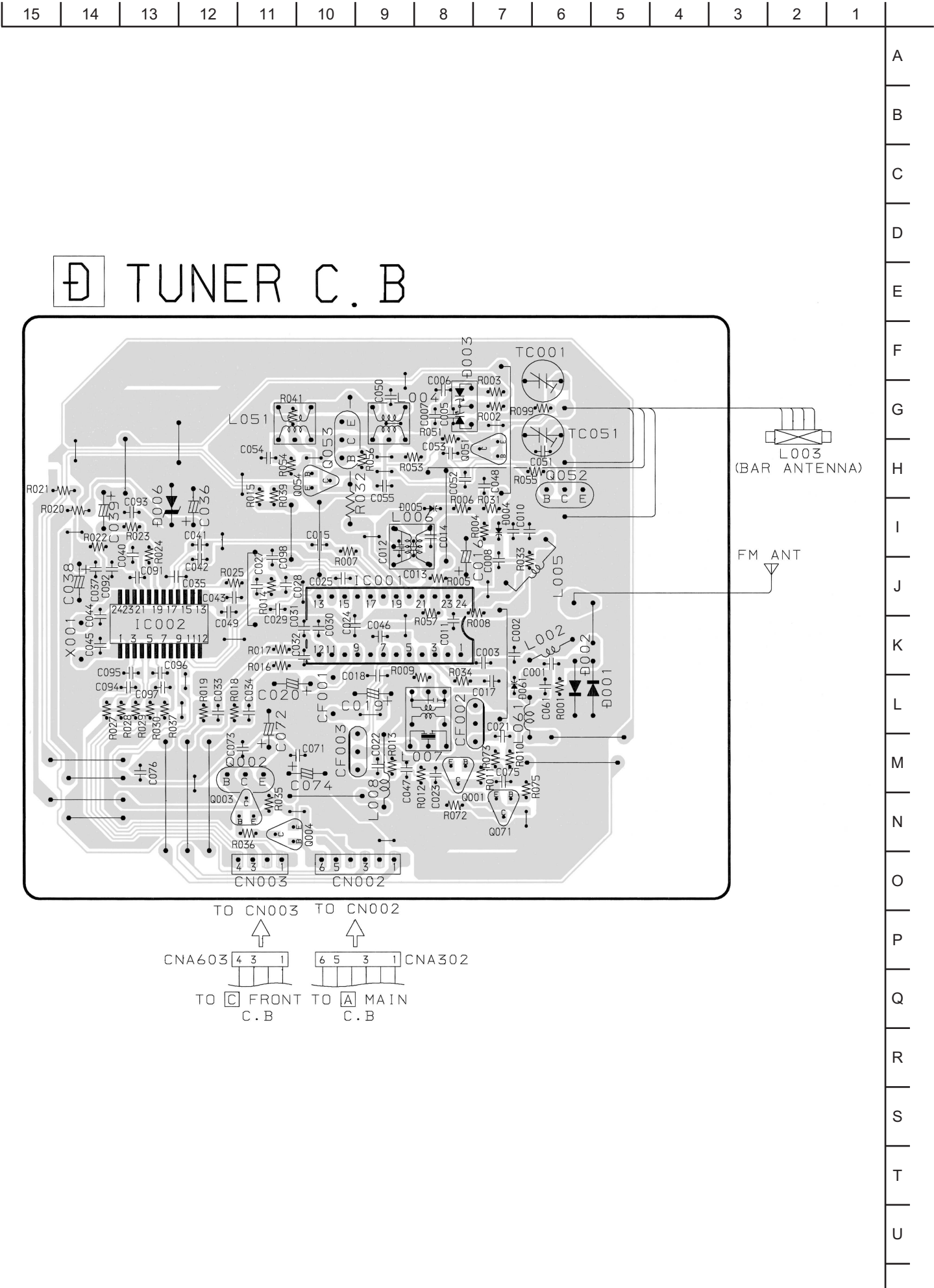


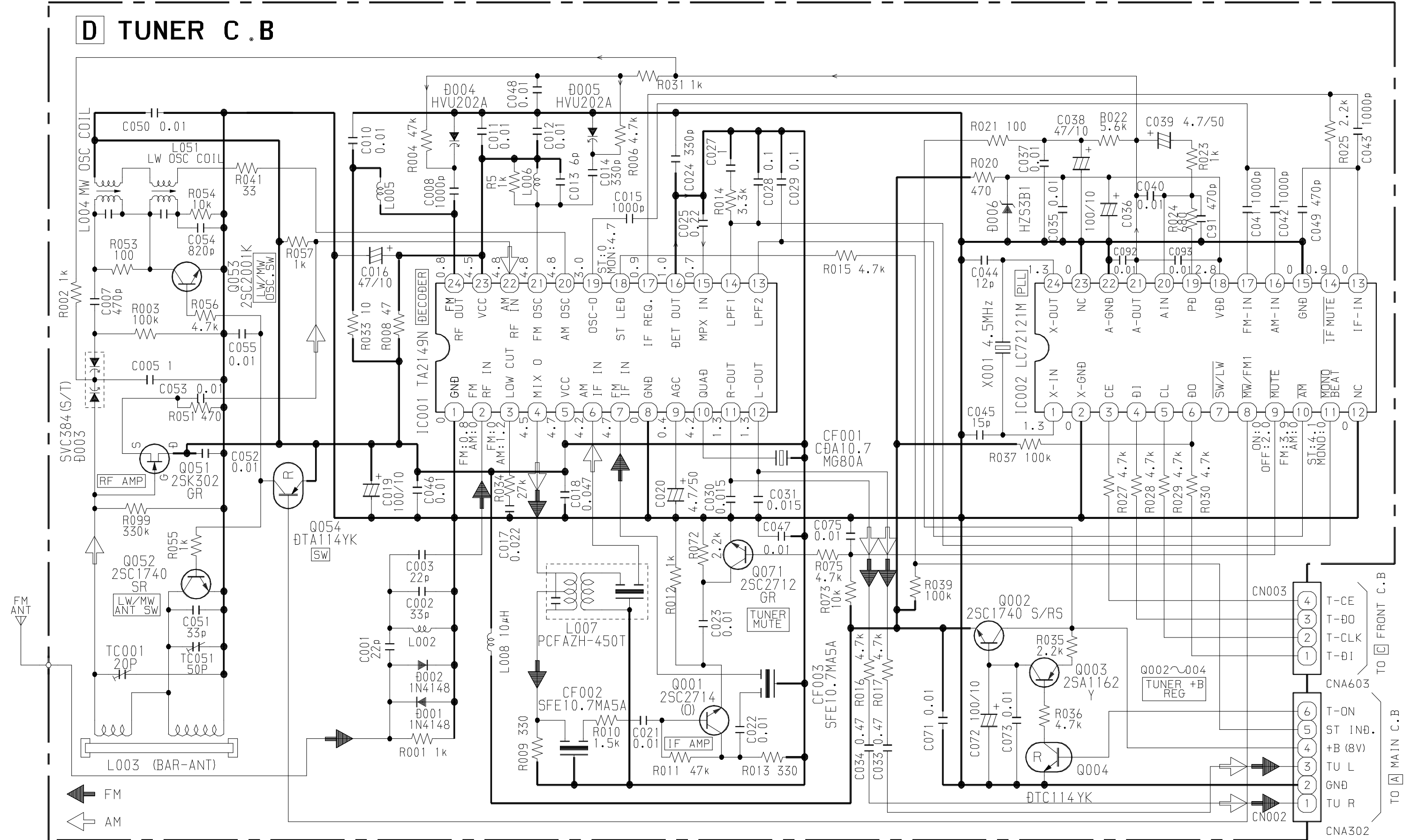
WIRING - 3 (TUNER) <U>



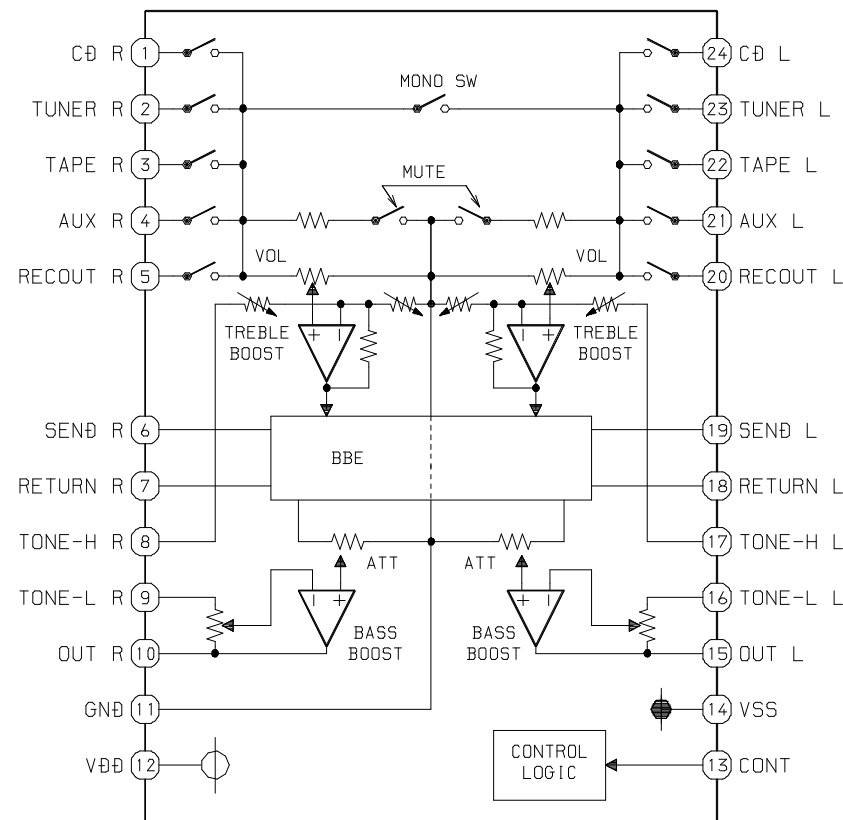


WIRING - 4 (TUNER) <EZ,K>

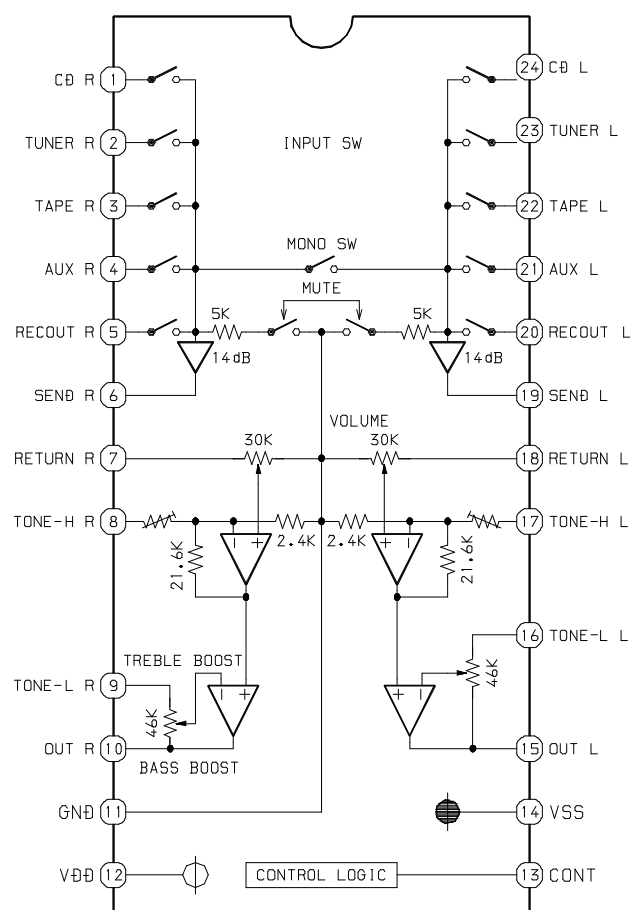




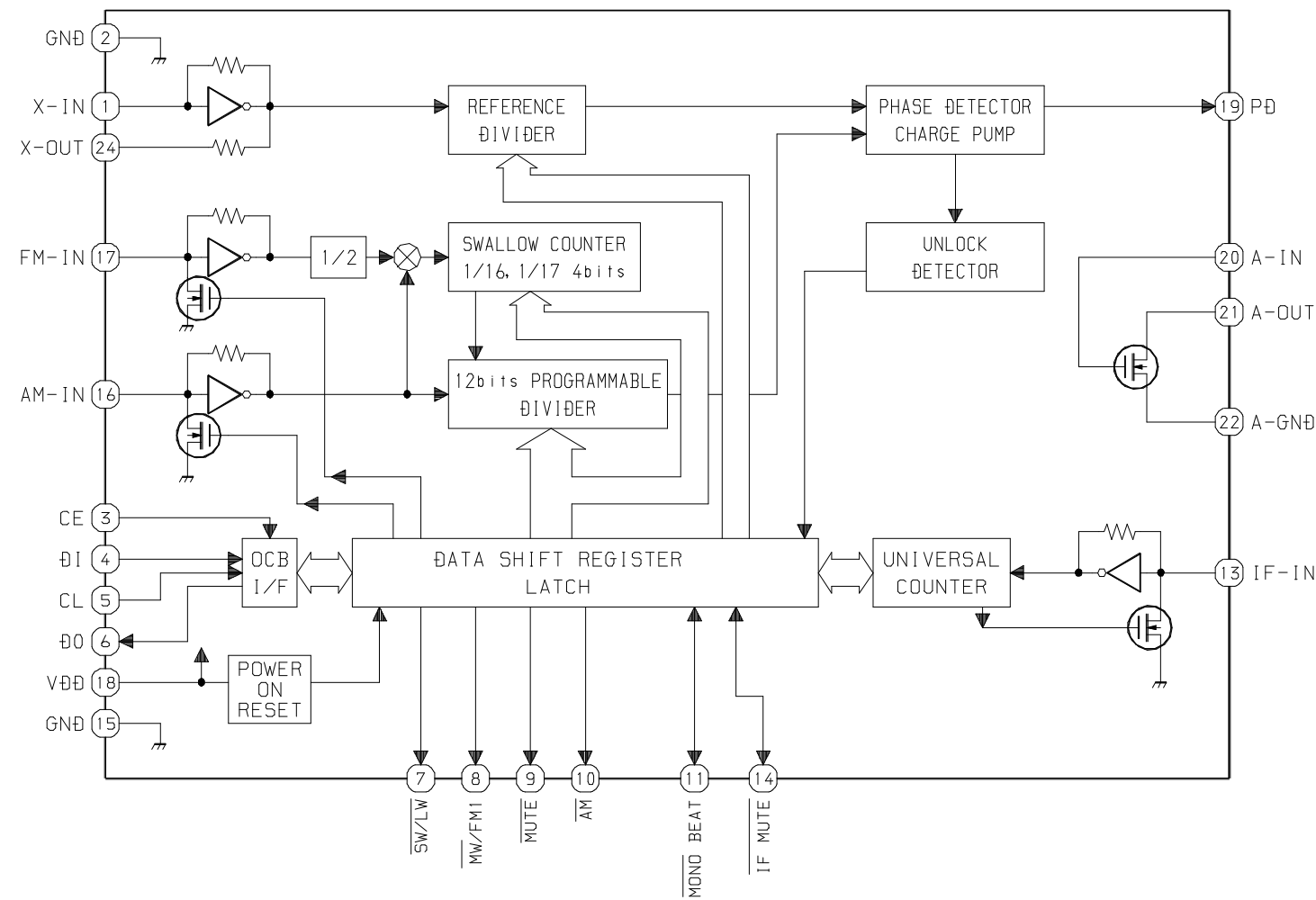
IC BLOCK DIAGRAM
IC,M61509FP



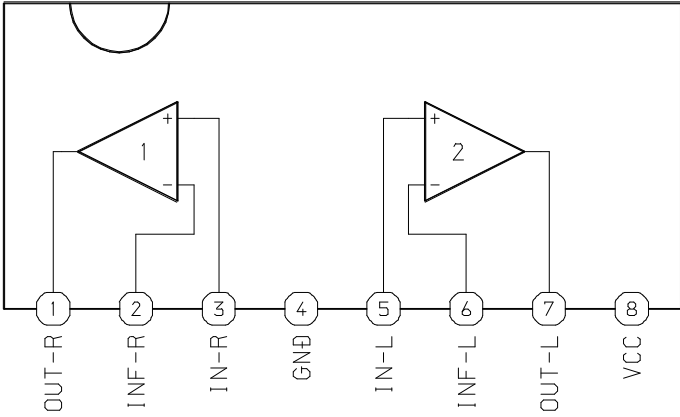
IC,M62495AFP



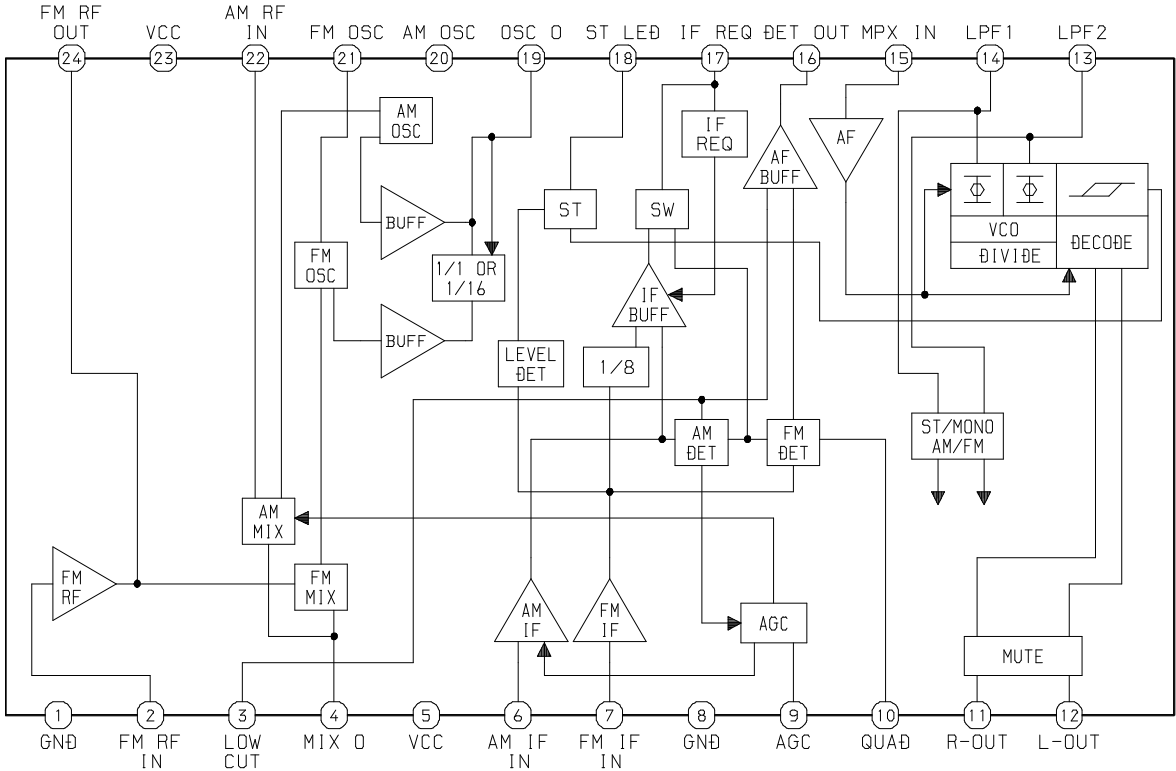
IC,LC72121M



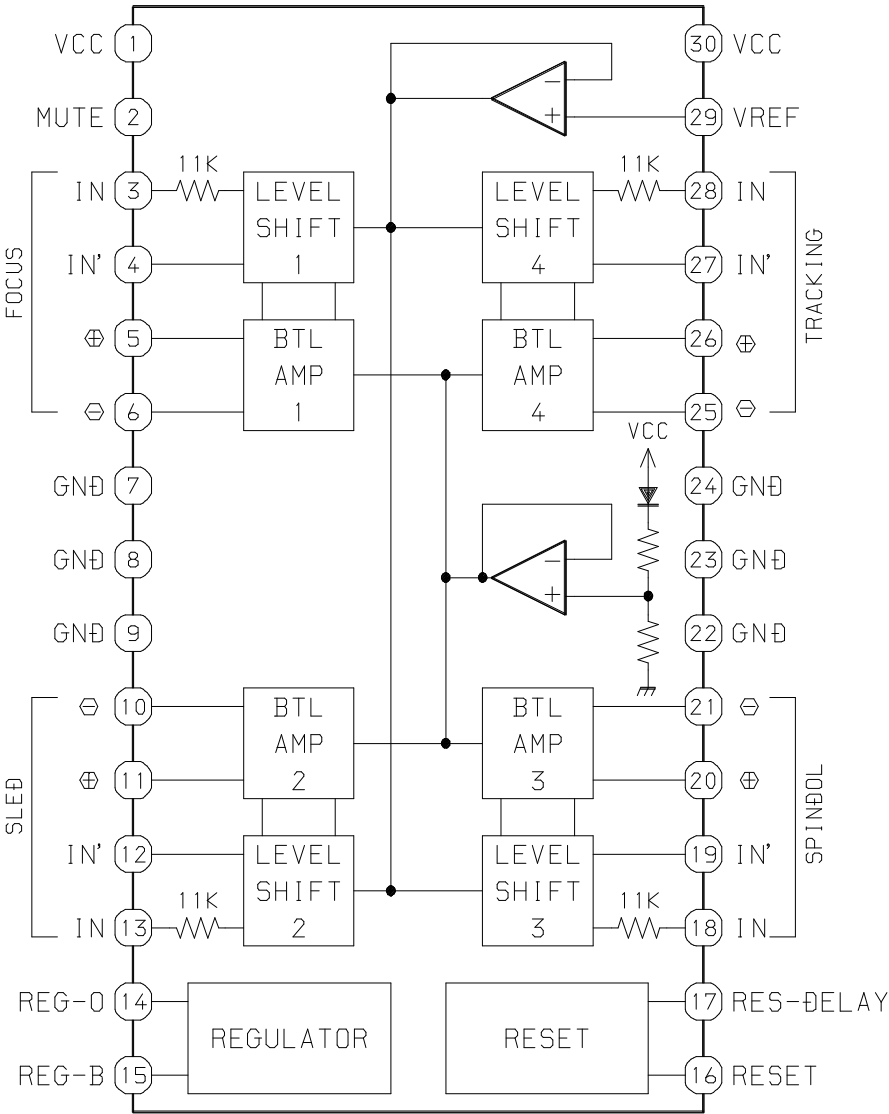
IC,BA4560N



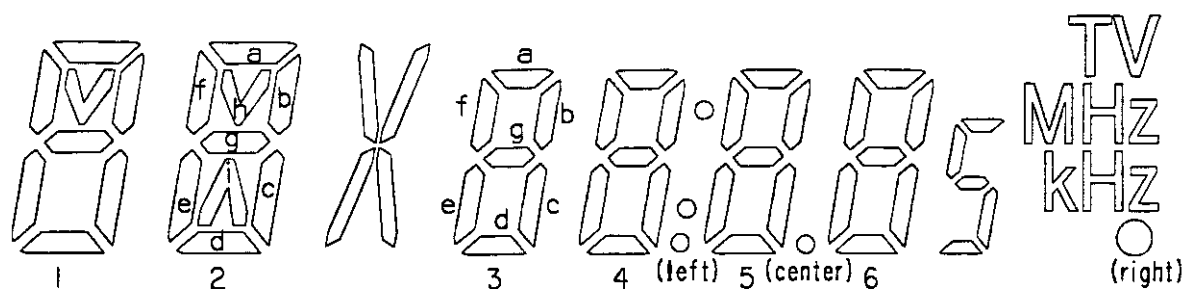
IC,TA2149N



IC,LA6541D



VOL G 1 M MONO STEREO



NO.	COM.1	COM.2	COM.3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	G
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	X
13	•	• (left)	MONO
14	5f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	KHz
21	COM.1		
22		COM.2	
23			COM.3

IC DESCRIPTION

IC, LC867132V-5P07

Pin No.	Pin Name	I/O	Description
1	O-RWC / CE	O	CD read/write control (TU CE).
2	O-DATA	O	Data output to LC72121M/M62495FP.
3	O-CLK	O	CLK output to LC72121M.
4	P16	-	Not used.
5	O-CK SFT	O	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RET	I	Microcomputer reset pin.
8	XT1 (IN)	I	Connected to 32.768 kHz crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	-	Connected to GND.
11	CF1 (IN)	I	Input pin for ceramic resonator oscillation.
12	CF2 (OUT)	O	Output pin for ceramic resonator oscillation.
13	VDD1	-	Power supply (+5V).
14	I-FM ST	I	FM STEREO detect. (STEREO CONDITION "L").
15	I-KEY0	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-DECK	I	DECK MECHA MOTOR status input.
19	P85	-	Not used.
20	P86	-	Not used.
21	I-TU DO	I	Data input from LC72121M.
22	O-BASS LED	O	BASS LED ON/OFF control output.
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	O-DUBB LED	O	High DUBB LED control.
25	O-INT	O	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REM	I	Remote control input.
29	S0	O	LCD segment output/MATRIX set (SW1).
30	S1	O	LCD segment output/MATRIX set (LW).
31	S2	O	LCD segment output/MATRIX set (AM 10K).
32	S3	O	LCD segment output/MATRIX set (FM WIDE).
33	S4	O	LCD segment output/MATRIX set (OIRT).
34	S5	O	LCD segment output/MATRIX set (SW2).
35	S6	O	LCD segment output/MATRIX set (SYNTH).
36	S7	O	LCD segment output/MATRIX set (FM 1/16).
37	S8	O	LCD segment output/MATRIX set (QSURR).
38	S9	O	LCD segment output/MATRIX set.
39~40	S10~S11	O	LCD segment output.
41	VDD3	-	Power supply (+5V).

42	VSS3	-	Connected to GND.
43~44	S12~S13	O	LCD segment output.
45~50	S16~S21	O	LCD segment output.
51~54	S22~S25	-	Not used.
55	O-CD LED	O	LED ON/OFF control output for CD functions.
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED	O	LED ON/OFF control output for TAPE functions.
58	O-ROCK LED	O	LED ON/OFF control output for ROCK.
59	O-POP LED	O	LED ON/OFF control output for POP.
60	O-JAZZ LED	O	LED ON/OFF control output for JAZZ.
61	V3	-	Not used.
62	I-CD TEST	-	Not used.
63	I-TU TEST	-	Not used.
64~66	COM0~COM2	O	LCD common output.
67	COM3	-	Not used.
68	VSS2	-	Connected to GND.
69	VDD2	-	Power supply (+5V).
70	O-CD ON	O	CD PWR control output.
71	O-TU ON	O	TU PWR control output.
72	O-P.CONT	O	Power supply control output.
73	O-HI DUBB	O	TAPE DUBB speed control.
74	O-MUTE	O	Main mute output.
75	O-FM MONO	-	Not used.
76	O-BEAT CONT	O	BEAT switch over output.
77	O-QSOUND	-	Not used.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Internal VCO ground. Must be connected to 0V.
5	ISSET	O	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. Must be connected to 0V.
9	EFMO	O	Slice level control; EFM signal output.
10	EFMIN	I	Slice level control; EFM signal input.
11	T2	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
12	CLV+	O	Disc motor control output.
13	CLV–		Three-value output is also possible when specified by microprocessor command.
14	V/P	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output.
20	JP–		Three-value output is also possible when specified by microprocessor command.
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	CONT3	–	Not used.
27	PU IN	I	CD pickup inside limit switch.
28	RW	O	Serial data command sled output terminal from microprocessor.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format). (Not used)
32	T3	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
33	T4		
34	NC	–	Unused. Must be left open.
35	MUTEL	O	Left channel one-bit D/A converter mute output. (Not used)
36	LVDD	–	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.

Pin No.	Pin Name	I/O	Description
38	LVSS	–	Left channel one-bit D/A converter ground. Must be connected to 0V.
39	RVSS	-	Right channel one-bit D/A converter ground. (Must be connected to 0V.)
40	RCHO	O	Right channel one-bit D/A converter output.
41	RVDD	-	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute output. (Not used)
43	XVDD	-	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.9344 MHz crystal oscillator element.
45	XIN	I	
46	XVSS	-	Crystal oscillator ground. (Must be connected to 0V.)
47	SBSY	O	Subcode clock synchronization signal output. (Not used)
48	EFLG	O	C1, C2, single and double error correction monitor. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input.
52	FSX	O	Output pin for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read/write control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input pin from control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input pin. This is Schmitt input.
58	$\overline{\text{RES}}$	I	Reset input. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally output a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is built-in. (Must be connected to 0V if not controlled.)
64	T1	I	Test input. No pull-down resistor. (Must be connected to 0V.)

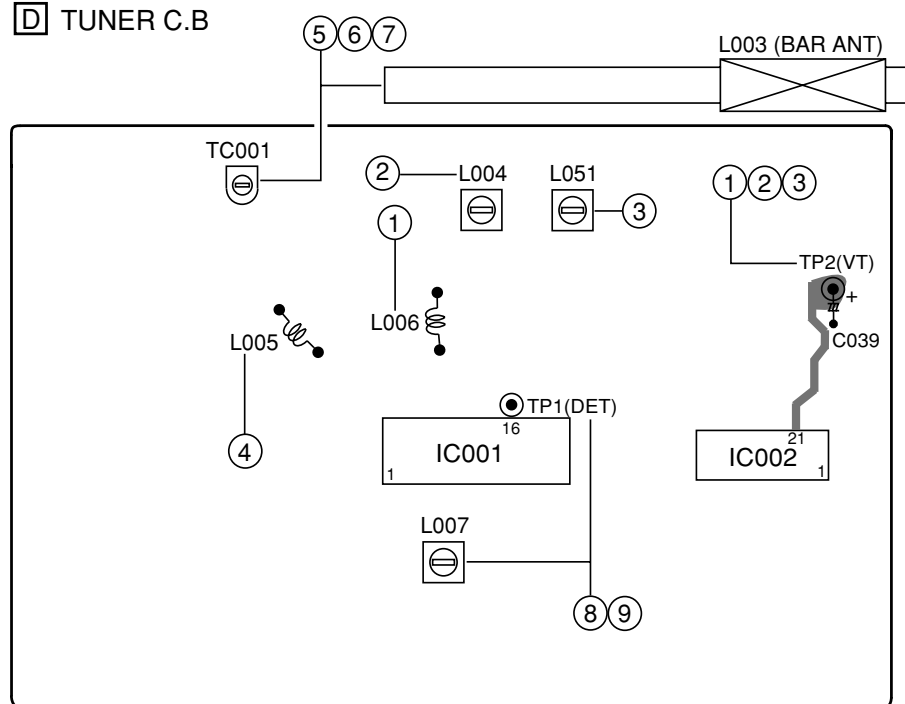
IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	I	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD and FA pins.
19	FA-	I	Composes the focusing phase compensation constant between the FD and FA pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor whichs sets the gain of the FE signal between this pin and the TE pin.
22	AGND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

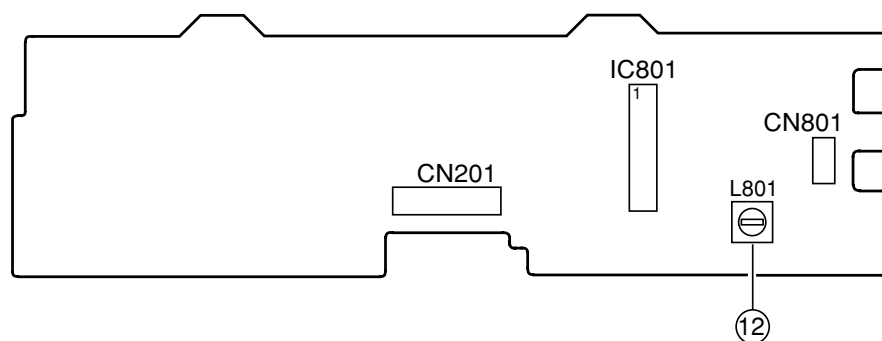
Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	DGND	-	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	-	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Not connected)
56	VCC2	-	VCC of servo and digital circuits.
57	REF1	-	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	Sets the time constant for disc defect detection.
60	PH1	-	For the connection of a capacitor to hold the RF signal peak.
61	BH1	-	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	-	VCC of RF signal circuits.

ADJUSTMENT <TUNER / DECK / CD>

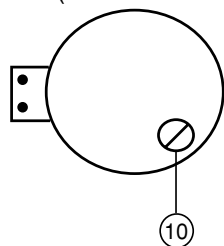
D TUNER C.B



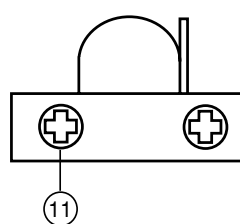
A MAIN C.B



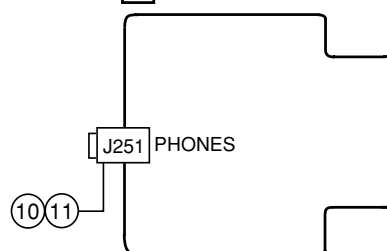
M1 (TAPE MOTOR)



RPH



E H.P. C.B



< TUNER SECTION >

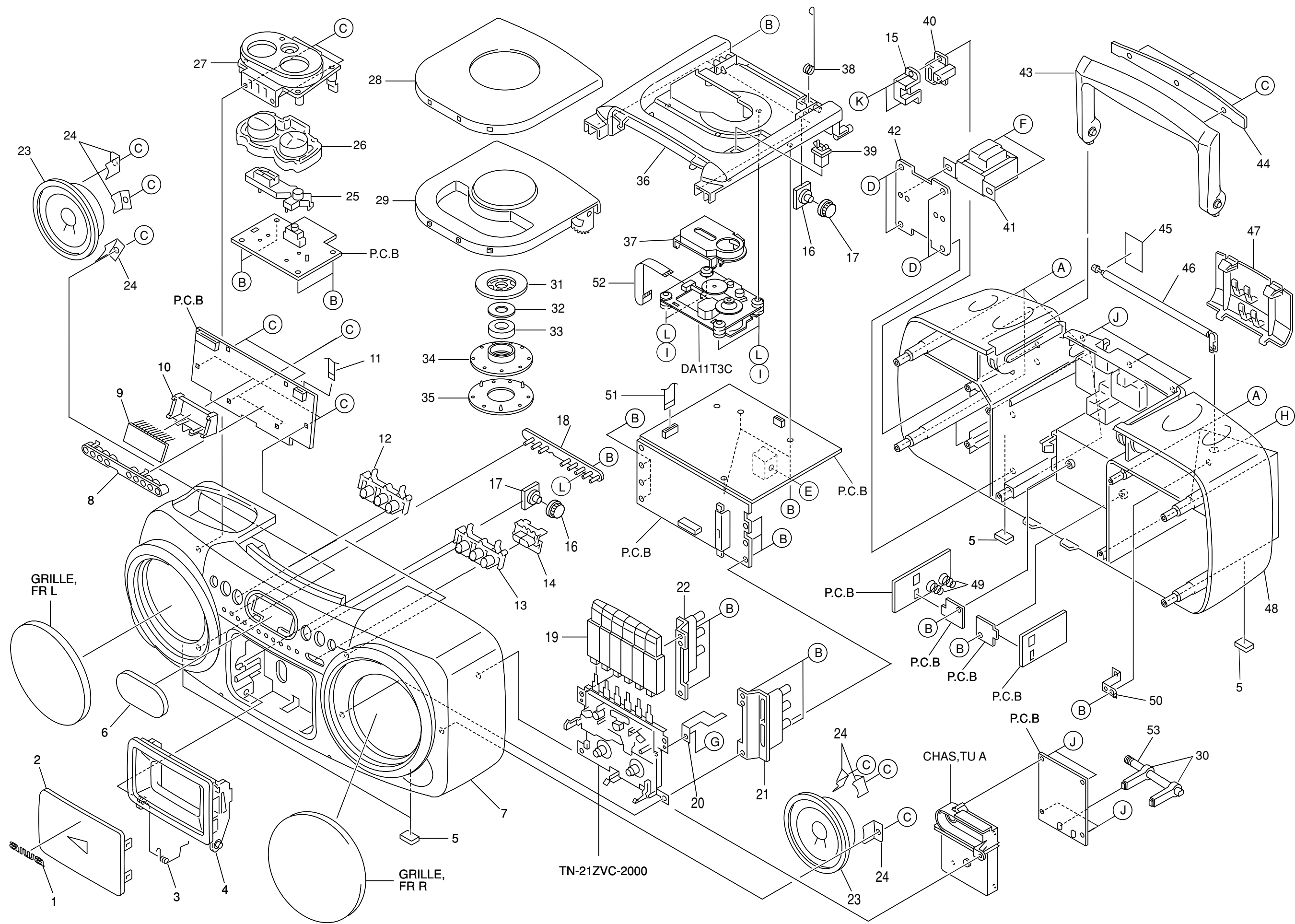
1. FM VT Adjustment
Settings : • Test point : TP2(VT)
• Adjustment location : L006
Method : Set to FM 108.0MHz and adjust L006 so that the test point voltage becomes $6.0V \pm 0.05V$.
2. AM VT Adjustment
Settings : • Test point : TP2(VT)
• Adjustment location : L004
Method : Set to MW 1000kHz (U), MW 999kHz (EZ,K) and adjust L004 so that the test point voltage becomes $3.75V \pm 0.05V$.
3. LW VT Adjustment <EZ,K>
Settings : • Test point : TP2(VT)
• Adjustment location : L051
Method : Set to LW 288kHz and adjust L051 so that the test point voltage becomes $4.5V \pm 0.05V$.
4. FM Tracking Adjustment
L005.....98.0MHz
5. AM Tracking Adjustment <U>
L003.....600kHz
TC001.....1400kHz
6. AM Tracking Adjustment <EZ,K>
L003.....603kHz
TC001.....1404kHz
7. LW Tracking Adjustment <EZ,K>
L003.....153kHz
TC001.....288kHz
8. AM IF Adjustment <U>
Settings : • Test point : TP1(DET)
• Adjustment location : L007
Method : Adjust L007 so that the output level at 1400kHz becomes maximum.
9. AM IF Adjustment <EZ,K>
Settings : • Test point : TP1(DET)
• Adjustment location : L007
Method : Adjust L007 so that the output level at 1404kHz becomes maximum.

< DECK SECTION >

10. Tape Speed Adjustment
Settings : • Test tape : TTA-100
• Test point : J251 (PHONES jack)
• Adjustment location : SFR of deck motor
Method : Play back the test tape and adjust SFR so that the frequency counter reads $3000Hz \pm 30Hz$.
11. Head Azimuth Adjustment
Settings : • Test tape : TTA-320
• Test point : J251 (PHONES jack)
• Adjustment location : Azimuth adjustment screw
Method : Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
12. Bias frequency Adjustment
L801.....85kHz $\pm 0.5kHz$

< CD SECTION >

13. FE Balance Adjustment
Settings : • Test point : IC401 PIN58 (VR), IC401 PIN 20 (FE)
• Adjustment location : SFR430
Method : Playback the disc and adjust SFR430 so that the test point voltage becomes 0V.



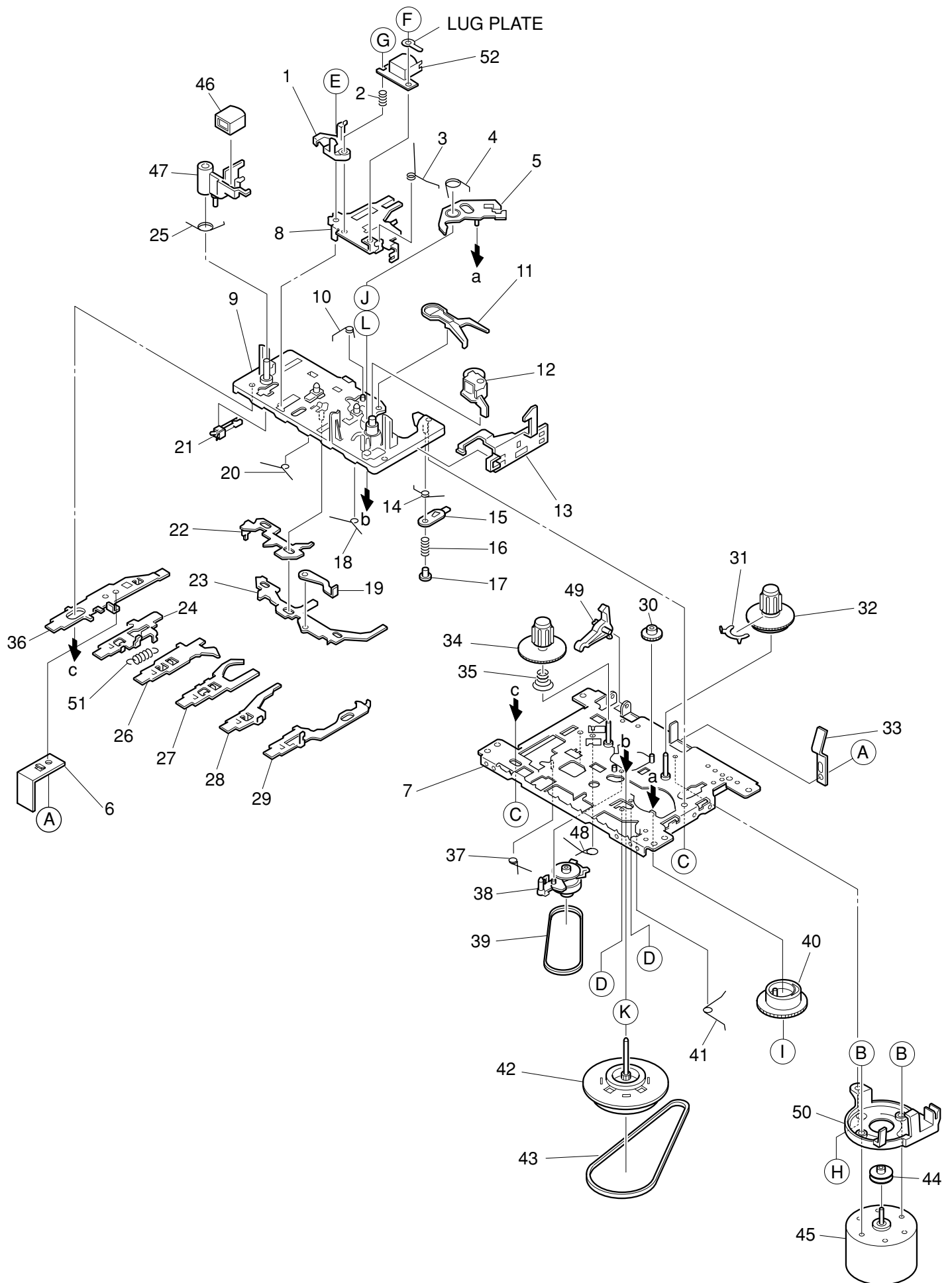
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-B00-010-010		BADGE,AIWA 30.5-5.2 S 2.5L	37	8Z-CDB-169-010		PANEL,CD SANYO
2	8A-CD9-009-010		WINDOW,CASS	38	8A-CD9-231-010		SPR-T,CD
3	8A-CD9-232-010		SPR-T,CASS	39	87-036-389-010		SW,PUSH LOCK
4	8A-CD9-008-010		BOX,CASS	△ 40	87-A60-178-010		JACK,AC E W/SW<EZ,K>
5	86-CT4-218-010		CUSHION,FOOT/PORON	△ 40	87-A60-177-010		JACK,AC U W/SW<U>
6	8A-CH9-005-010		WINDOW,LCD	△ 41	8A-CD9-607-010		PT,E 2.5W<EZ,K>
7	8A-CH9-009-010		CABI,FR A2-X ASSY<U>	△ 41	8A-CD9-606-010		PT,U 2.5W<U>
7	8A-CH9-007-010		CABI,FR A2 ASSY<EZ>	42	8A-CH4-209-010		HLDR,PT
7	8A-CH9-011-010		CABI,FR A2L ASSY<K>	43	8A-CD9-012-010		HANDL,GRIP
8	8A-CD9-202-010		GUIDE,LED	44	8A-CD9-011-010		HANDL,ARM
9	8Z-CH4-635-010		LCD,HLC7365 ZCH-4	45	8A-CH4-036-010		PLATE,AC
10	8A-CD9-201-010		HLDR,DISPLAY	46	8Z-CH4-640-010		ANT,ROD
11	8A-CD9-622-010		FF-CABLE, 8P CD-FR	47	8A-CD9-010-010		LID,BATT
12	8A-CD9-015-010		BTN,CD A	48	8A-CH9-002-010		CABI,REAR A2
13	8A-CD9-016-010		BTN,CD B	49	87-CD6-213-010		SPR-C,BATT (-)
14	8A-CD9-028-010		BTN,Q/BASS<EZ,U>	50	8A-CD9-221-010		HLDR,ANT
14	8A-CD9-017-010		BTN,QSOUND<K>	51	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
15	8Z-CD5-634-010		COVER,AC SOCKET	52	8A-CD9-621-010		FF-CABLE, 16P CD-RF
16	84-CD5-215-010		GEAR	53	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<U>
17	84-CD5-216-010		BRACKET	53	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<EZ,K>
18	8A-CD9-022-010		LENS,LED	A	87-B10-242-010		UT2+3-30 W/O CR
19	8A-CD9-024-010		KEY,CASS TN21	B	87-741-096-410		UT2+3-10
20	8A-CD9-223-010		SPR-P,REC TN21	C	87-B10-239-010		QT2+3-8 W/O CR
21	8A-CD9-212-010		HLDR,PWB R	D	87-661-097-410		TAPPING SCREW, VFT1+3-12
22	8A-CD9-211-010		HLDR,PWB L	E	87-751-094-410		VT2+3-6 W10SL0T
23	88-CD9-626-010		SPKR,100 70HM 3W	F	87-067-566-010		TAPPING SCREW, VFTT+3-6
24	8A-CD9-222-010		HLDR,SPEAKER	G	87-571-033-410		TAPPING SCREW, VIT+2-4
25	8A-CD9-203-010		GUIDE,VOL	H	87-255-096-410		U+3-10 NI
26	8A-CD9-014-010		BTN,VOL	I	87-342-074-010		UT2+2.6-8
27	8A-CH9-006-010		PANEL,VOL CH	J	87-B10-269-010		UT2+3-12 W/O CR
28	8A-CD9-007-010		WINDOW,CD	K	87-352-075-210		VT2+2.6-10
29	8A-CH9-012-010		BOX,CD A<EZ,U>	L	87-WA5-253-010		W,3.3-10-0.8
29	8A-CH9-014-010		BOX,CD AL<K>				
30	88-CD6-661-010		HLDR,BAR ANT.				
31	8Z-CH4-225-010		HLDR,CHUCK A(S)				
32	84-CD5-217-010		PLATE,MAGNET				
33	87-036-368-010		MAGNET				
34	8Z-CH4-211-010		BASE,CHUCK				
35	8Z-CH4-212-010		RING,CHUCK				
36	8A-CD9-005-010		CHAS,CD A				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1

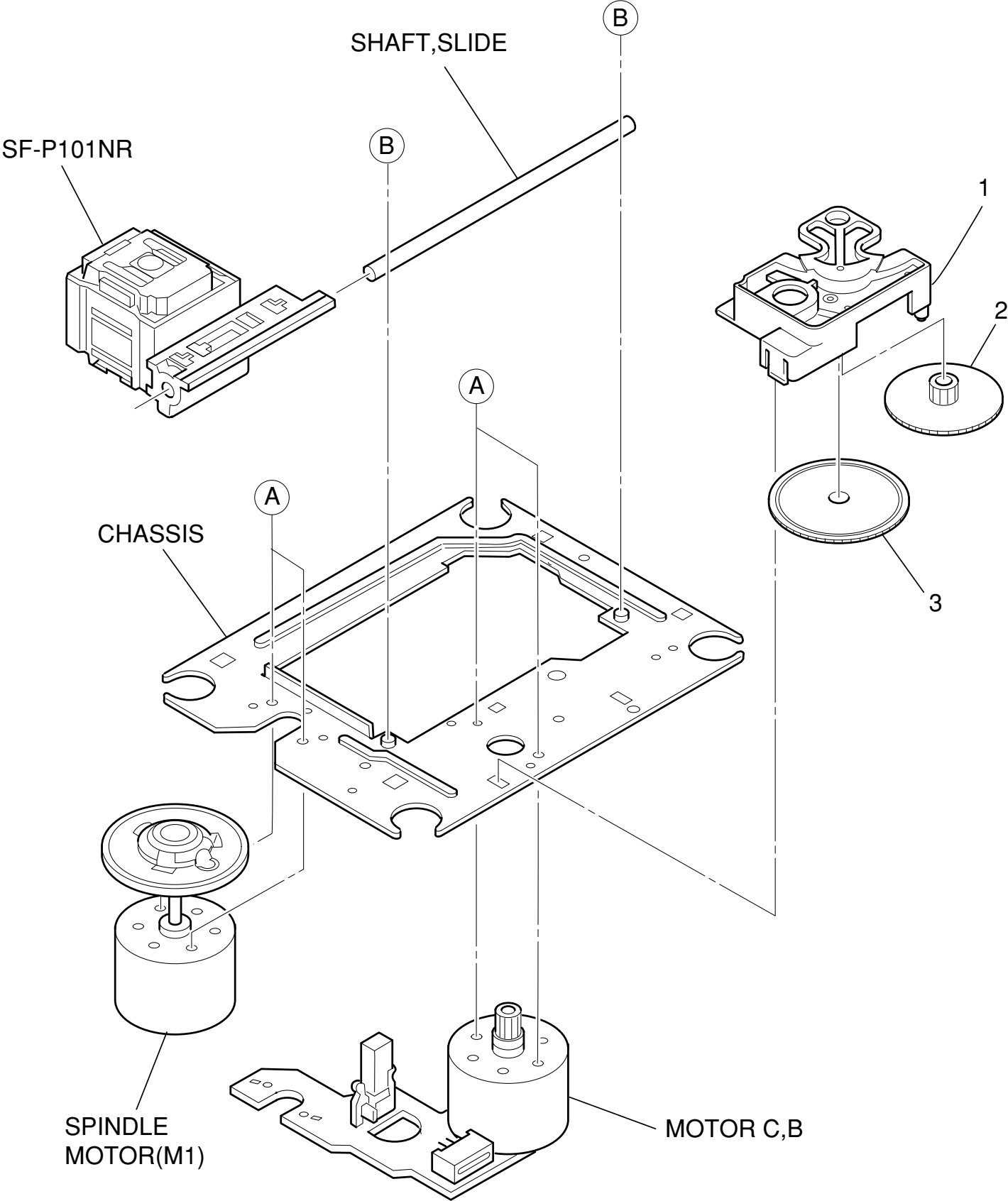


TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-090		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-510-020-020		REC SPRING PLATE
7	S1-921-015-010		CHASSIS ASSY
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-160		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-100		PINCH ROLLER ARM ASSY
13	S1-921-130-010		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-550		PAUSE LEVER(E)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-141-070		BUTTON LEVER SPRING(A)
21	S6-401-011-490		LEAF SW MSW-1541T
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-190		PLAY BUTTON LEVER
25	S1-921-030-100		MG ARM SPRING
26	S1-921-140-040		REW BUTTON LEVER
27	S1-921-140-050		FF,BUTTON REVER
28	S1-921-140-060		STOP BUTTON LEVER
29	S1-921-140-600		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENER
32	S1-921-053-100		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-050-150		S REEL HUB
35	S1-921-050-220		BACK TENSION SPRING

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
36	S1-921-140-030		REC BUTTON LEVER
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-040		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-210		FLYWHEEL ASSY
43	S1-921-090-380		MAIN BELT
44	S1-921-120-590		MOTOR PULLEY
45	S6-002-030-220		MOTOR EG530AD-2B
46	S6-209-100-100		E HEAD PH-K380-MS1
47	S1-921-030-050		MG ARM
48	S1-921-140-210		REC BUTTON LEVER SPRING
49	S1-821-100-690		RECORD SAFETY LEVER
50	S1-821-128-9A0		MOTOR BRACKET
51	S1-821-010-500		PLAY BUTTON LEVER SPRING
52	S6-201-011-110		HEAD,RP7442ES-0951
A	S9-P04-200-310		C TAPPING SCREW 2-3
B	S1-921-120-020		MOTOR COLLER SCREW
C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
E	S9-P01-200-610		SCREW,M2-6
F	S9-B01-200-310		(+)BIND SCREW M2-3
G	S9-F08-200-710		AZIMUTH SCREW M2-7
H	S1-921-120-030		MB SCREW
I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
K	S9-W01-400-100		P WASHER 2-3.5-0.4
L	S9-W01-130-200		P WASHER 2.1-4-0.13



CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-0SE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070	DA11T3C	

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CH9-903-010		IB, U (ESF) B<U>
1	8A-CH9-905-010		IB, K (E) B<K>
1	8A-CH9-906-010		IB, EZ (9L) B<EZ>
2	87-099-726-010		PLUG, ADPTR CONV (K) <K>
	3	87-A80-081-010	AC CORD SET ASSY, EZ BLK<EZ, K>
	3	87-A80-109-010	AC CORD, HK7281 BLK U<U>

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